Advanced Video Movement

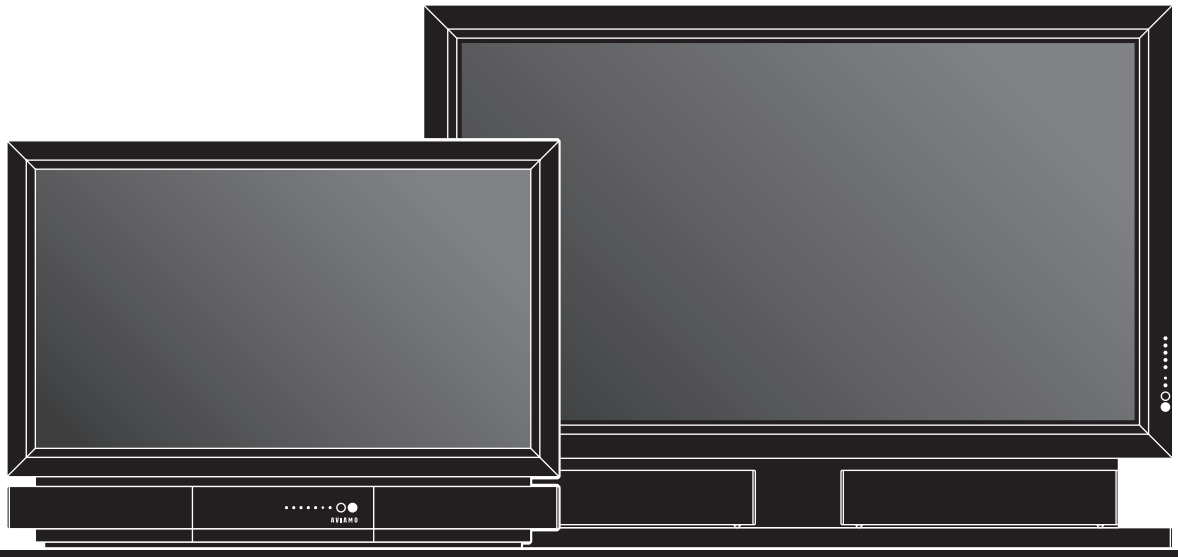
HIGH DEFINITION MULTIMEDIA INTERFACE

USER'S MANUAL

English

FULL HD DISPLAY
P37FT05AEB
P65FT00AEB

AVIAMO™



Before using the display, read this manual carefully so that you know how to use the display correctly.
Refer to this manual whenever questions or problems about operation arise. Be sure to read and observe the safety precautions (see the separate "Safety Precautions" manual).
Keep this manual where the user can see it easily.
** Installation and removal require special expertise. Consult your product dealer for details.*
** When "English" is selected at "Language" of the on-screen display, "colour" will be displayed in the case of the E model and "color" will be displayed for all other models.*
The notation used in this user's manual is "color".

FUJITSU GENERAL LIMITED

CONTENTS

INFORMATION **3**
ACCESSORIES **4**
TRADEMARK INFORMATION 4
INSTALLATION **5**
TOPPLING PREVENTION 6
ATTACHING THE FERRITE CORES 6
PART NAMES AND FUNCTIONS **7**
DISPLAY SECTION – FRONT 7
DISPLAY SECTION – BACK 8
REMOTE CONTROL 10
USING THE REMOTE CONTROL **12**
PUTTING BATTERIES IN THE REMOTE CONTROL 12
PRECAUTIONS 12
EFFECTIVE RANGE FOR THE REMOTE CONTROL 13
BASIC CONNECTION AND PREPARATION OF THE SYSTEM **14**
CONNECTIONS TO THE DISPLAY 14
INITIAL SETTING TO WATCH TV 14
TO WATCH PAY-TV (When there is a CI Module and Smart Card) 15
CONNECTING TO EXTERNAL EQUIPMENT **16**
EXAMPLE OF CONNECTING EXTERNAL EQUIPMENT **17**
BASIC OPERATIONS **18**
Power ON 18
Power OFF (Standby State) 18
VOL (Volume) 18
MUTE 18
WATCHING TV, VIDEO, OR PICTURES ON PC **19**
TV/DTV 19
P RETURN (PROGRAM RETURN) 19
VIDEO 19
RGB 19
WATCHING DIGITAL TERRESTRIAL TV **20**
TV/DTV 20
GUIDE 20
FAV/LIST 20
SUBTITLE 20
TEXT 21
INFO (INFORMATION) 21
MULTI 21
WATCHING ANALOG TV **22**
TV/DTV 22
STEREO 22
TELETEXT 22
OTHER BASIC OPERATIONS **23**
Listening mode NIGHT 23
DISPLAY 23
OFF TIMER 23
FINE 23
PICTURE MEMORY 23
WIDE 23
SCREEN SIZE 24
ASPECT RATIO 24
ADJUSTMENT MENU **25**
BASIC PROCEDURES OF ADJUSTMENT MENU **26**
ADJUSTING TO A DESIRED PICTURE (PICTURE MENU) **27**
Signal Contrast 27
Drive Contrast 27
Brightness 27
Color 27
Tint 27
Sharpness 27
Ambient Sensor 27
Picture Mode 27
Precision Setting 28
Black Level 28
Detail Gradation 28
3D NR 28
CODEC NR 28
Image Enhance 28
Color Temp. 28
User Color Temp. 28
Color Tuning 29
Progressive Scan 29
Gamma 30
ALC Setting 30
PAL 3D Y/C 31
Picture Memory 31
ADJUSTING TO DESIRED AUDIO (AUDIO MENU) **32**
Treble 32
Bass 32
Balance 32
Loudness 32
Sound Mode 32
ADJUSTING SCREEN POSITION AND SIZE (POSITION/ SIZE MENU) **33**
Screen Position 33
Screen Size 33
OTHER SETTINGS (FEATURES MENU) **34**
Adjustment 34
On Screen Menu 34
OSD 34
Language 34
Name Select 35
Input Terminal 35
D-SUB Input terminal 35
Video1 or Video2 Input terminal 35
Others 36
Auto Off-NO SIG. 36
Digital Tuner Power Save 36
Audio Input 36
Screen Orbiter 36
Direct Setting 37
Code Setting 37
White Screen 37
Background 37
Information 37
INITIALIZATION OF USER ADJUSTMENT VALUE **38**
ANALOG TV MODE SETTING (TV MENU) **39**
Auto Scan 39
Manual Scan 39
Sort 39
DIGITAL TV MODE SETTING (TV MENU) **40**
LANGUAGE SETUP 40
CHANNEL MANAGER 41
Fav, Lock, Delete 41
Sort 41
TV / Radio 41
SYSTEM INSTALLATION 41
Auto Scan 41
Manual Scan 41
Carrier Setup 41
SYSTEM CONFIGURATION 42
Time Setup 42
Password Setup 42
COMMON INTERFACE 42
TIMER REC OUT 43
ACCESSORIES 43
OPTIONS **44**
MAIN SUPPORTED SIGNALS **45**
CLEANING **46**
MAINTENANCE **47**
SPECIFICATIONS **48**

INFORMATION

- Receptacle

  Make sure that the power cord's grounding wire is grounded.

  The display comes with a 3-prong power plug; one prong is connected to the grounding wire. If you have only a 2-hole receptacle, you will need to have it replaced. Contact your dealer for more information.

- Have the display inspected and cleaned by your dealer at regular intervals.
- When the screen size is set to "Normal" and a picture was displayed for a long time, a residual image may be created at the boundary with the part at which an image is not displayed. We recommend that you use a screen size other than "Normal". (See P. E-24.)
- High-precision technology has been used in the manufacture of the display panel, in which the effective pixels exceeds 99.99%. However, please be aware, that fewer than 0.01% of the pixels may be missing or remain constantly lit.
- Some models are fitted with a radiator fan to prevent the display's internal temperature from rising during operation. Be careful of the air emitted by the radiator fan, as it may be hot.
- Contact your dealer when causing a bad influence to the display and other audio-visual equipment mutually.

  You may need to move your display if it produces degraded pictures or noise due to electromagnetic radiation, or if the infrared remote control does not function properly.
- Pictures may not be displayed properly if you connect a non-standard PC to the RGB input terminal. In this case, contact your dealer for more information.
- The protective circuit, built into the display, automatically turns off the power if the display has a problem. In this case, you will see that the power indicator lamp flashes red or green.
- Do not display the same picture for a long time, because part of the screen may "burn-in" and create a residual image if the same picture is displayed for an extended period of time. To prolong the life of the plasma display, we recommend the use of the "Screen orbiter" settings. (See P. E-36.) When a residual image was created, reduce the residual image by using the "White screen" settings. Note that there may also be cases when it can not be recovered completely. (See P. E-37.)

Warning

If the power indicator lamp flashes red or green, this signifies that the display has developed a problem. When this happens, be sure to unplug from the receptacle to prevent fire or electric shock. Then contact your dealer.

- It is important to install the display in a location close to a receptacle, and where the emergency stop button can be easily reached.

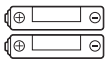
ACCESSORIES

☐ Safety Precautions

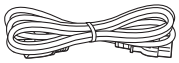
☐ User's Manuall

☐ Remote Control

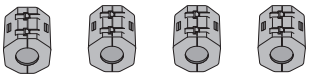
☐ AA Battery (2)



☐ Power Cord



☐ Large ferrite core



See P. E-6 for the installation procedure.

☐ Small ferrite core

See P. E-6 for the installation procedure.

(for 65" model)

TRADEMARK INFORMATION

HDMI (High-Definition Multimedia Interface)

HDMI , the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI licensing LLC.

DVB is a registered trademark of the DVB Project.

Note

- Cables for connecting the display to external equipment are not supplied. Contact your dealer for more information on these supporting products.
- The pictures and diagrams in this manual are meant to complement the explanations and may differ slightly from the actual items.

INSTALLATION

To prevent the display's internal components from overheating, make sure that the display is installed in a well-ventilated location.

Be sure to use the Fujitsu General Limited's optional stand, wall-mounting unit or the other mounting unit when installing the display. Also, be sure that your dealer performs the installation.

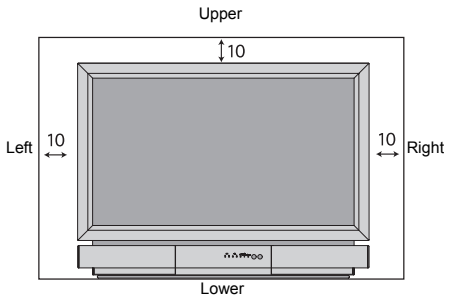
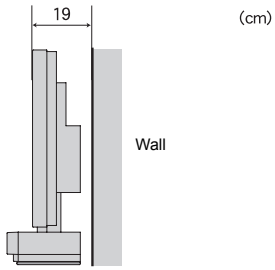
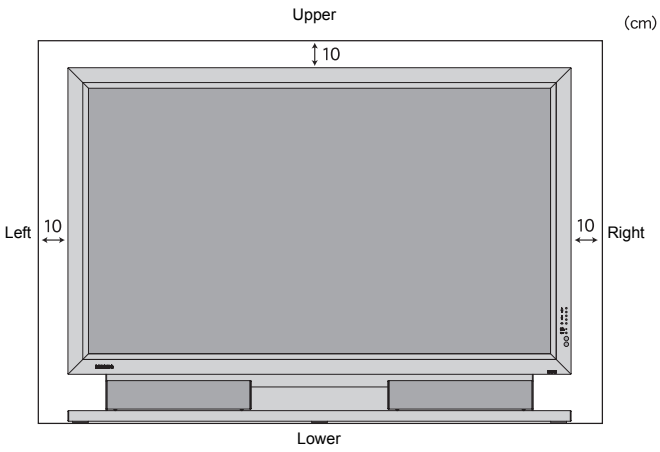
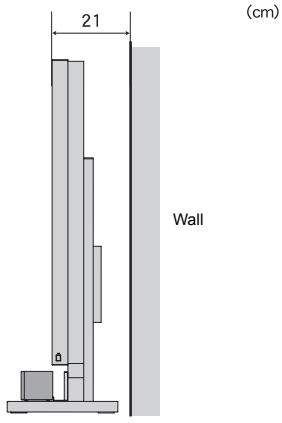
See the appropriate instruction manual for additional information on the mounting hardware you select.

To prevent an accident and ensure safety in the event of an earthquake, fix the display securely into the position as described below.

Use the diagram below to determine how much space is needed to ensure proper heat radiation. This is a minimum space requirement; therefore, provide at least as much space as indicated below.

* Make sure that the display is installed in a location where the temperature can be maintained between 0°C and 40°C (between 32°F and 104°F)
* Never attempt to tilt the display sideways or backward.
* To prevent the power cord and other cables from being accidentally pulled, make sure that they run along the wall or through corners.
* To prevent accidents and ensure safety in the event of an earthquake, secure the display to prevent it from tipping over.
* When placing with the display surface down, lay the body on a flat surface covered with a thick towel, etc. so as not to scratch the display surface. Also be careful that the display does not tip over. Don't place with the back facing down, because there are projections on the back. (For 65" model)

Display Section

	Front	Side
37" model		
65" model		

Note

- The external view is meant to be a representation of the actual unit and is not to scale; therefore, it may differ from the actual shape and size of the product.
- Due to the fragile and highly precise equipment, it is very important to pack properly before transportation using only the packing materials provided.
- Cables for connecting the display to external equipment are not supplied. Contact your dealer for more information on these supporting products.

Reference

The speakers and stand of the 65" model are optional.

• See P. E-44 for more information on options.

INSTALLATION (Continued)

TOPPLING PREVENTION

- There is the danger of the display being toppled by an earthquake or other unexpected shock. To use the display confidently, take toppling prevention measures.

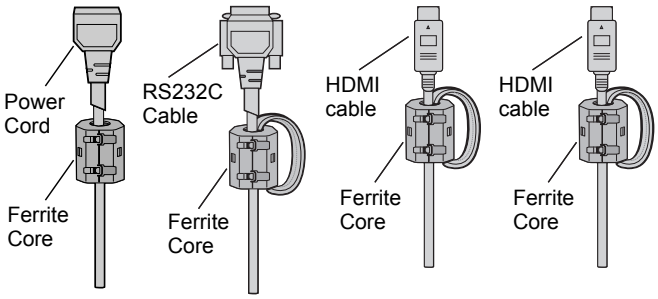
  Install reinforcing hooks (commercial product) at the four threaded holes at the back of the display and secure to a TV stand or pillar using strong wire (commercial product).

ATTACHING THE FERRITE CORES

- The ferrite cores are used to reduce noise. Attach them correctly as shown in the following illustrations.
- Be sure to turn off power of the display and external equipment before making any connections.
- Carefully check the terminals for position and type before making any connections.
  Loose connectors can result in picture or color problems. Make sure that all connectors are securely inserted into their terminals.

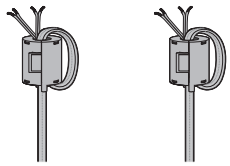
Large ferrite core (4)

When connecting the cord to the power input terminal, RS232C input terminal and HDMI input terminal, attach one of these ferrite cores to the cord and the cable near the terminal.



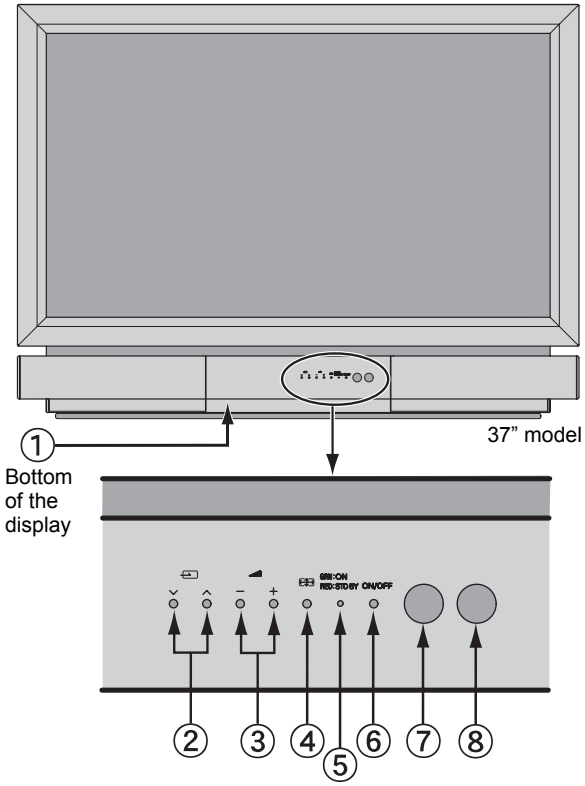
Small ferrite core (2) (for 65” model)

When connecting a cable to the external speaker output terminal, attach a ferrite core to the cable near the terminal.



PART NAMES AND FUNCTIONS

DISPLAY SECTION – FRONT



① / I power button

If this button is pressed when the power indicator lamp is off, the indicator lamp will light.

The power can be turned on and the standby mode selected by using the remote control or the control panel of the display.
If this button is pressed when the power indicator lamp is lit, the indicator lamp will go out.
*Power is still supplied to parts of the display even if the indicator lamp is off.

② Input mode selection button

Switches the input modes (TV mode, Video mode, and RGB mode).

③ Volume button

Adjusts the sound volume.

④ Wide screen selection button

Switches the screen over to a desired wide screen.

⑤ Power indicator lamp

This lamp shows the state of the power supply.

Lit (red):	Standby state
Lit (green):	Power ON state
Flashing (red or green):	Malfunction (Flashes differently depending on the type of malfunction.)

⑥ ON/OFF button

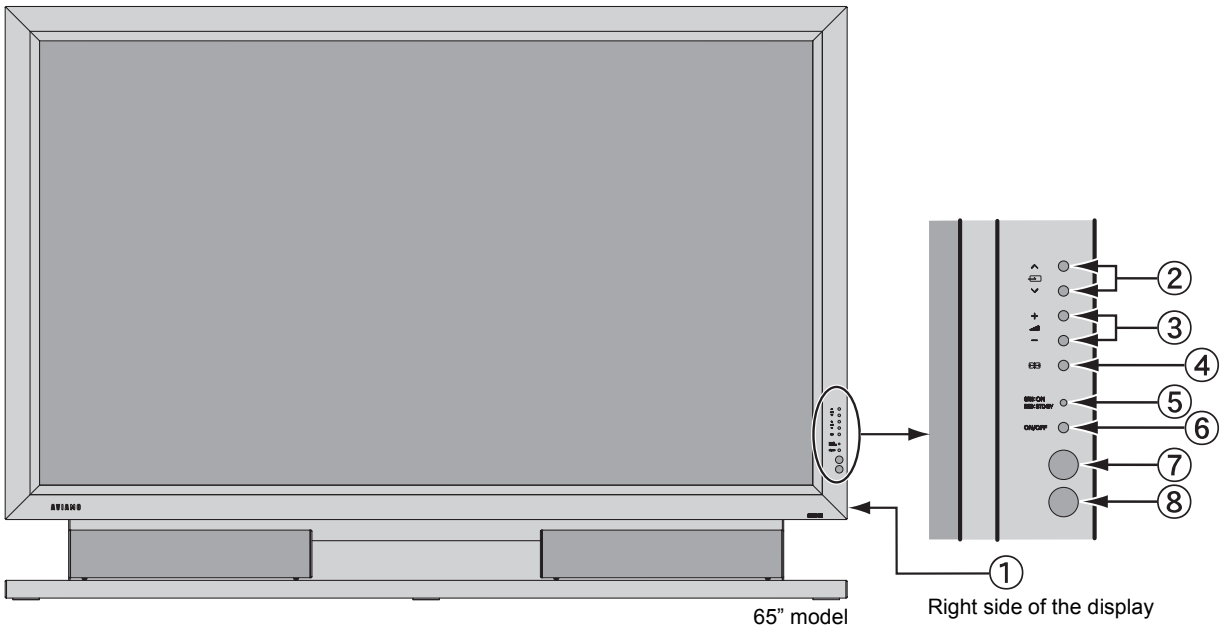
Turns the power "ON" and "OFF (standby state)".

⑦ Remote control signal receiver

Receives the signals from the remote control.

⑧ Ambient Sensor

Detects the brightness of ambient light.
It is important not to obstruct it for full functionality of the feature.

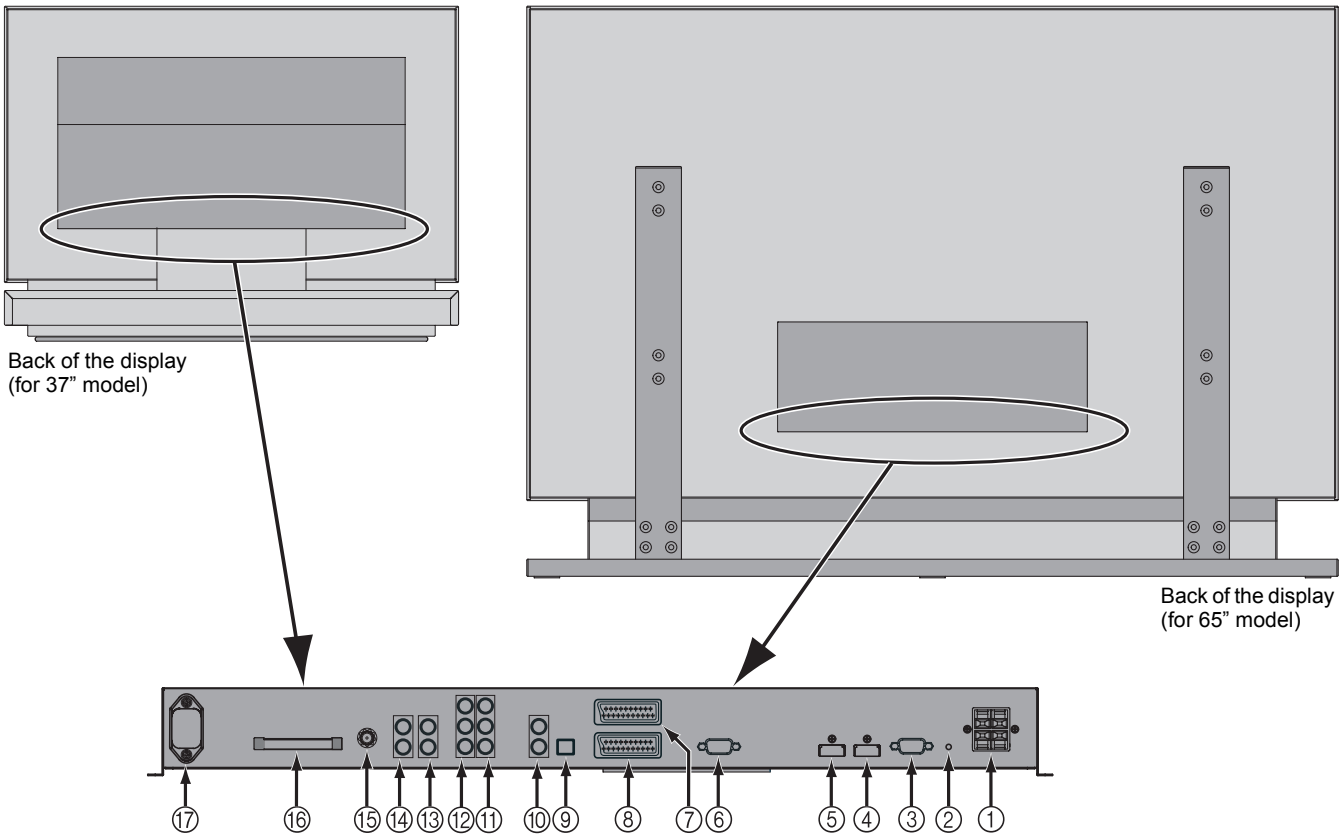


Warning

If the power indicator lamp flashes red or green, this signifies that the display has developed a problem. When this happens, be sure to remove the power plug from the receptacle and contact your dealer. In this circumstance, leaving the display power ON can result in fire or electric shock.

PART NAMES AND FUNCTIONS (Continued)

DISPLAY SECTION – BACK



① **External speaker output terminal (EXT. SP)** (for 65" model)
Connect this terminal to the optionally available speaker.
When connecting a cable, attach a ferrite core to the cable. (See P. E-6.)
*See the speaker instruction manual for more information.

② **Expansion terminal (EXP. PORT)**
Currently, this terminal is not functional and is provided to accommodate future technology enhancements. Do not connect any cable to this terminal.

③ **RS-232C terminal (RS-232C)**
This terminal is provided for you to control the display from the PC. Connect it to the RS-232C terminal on the PC.
When connecting a cable, attach a ferrite core to the cable. (See P. E-6.)

④ **HDMI input terminal (VIDEO6 INPUT/HDMI)**

⑤ **HDMI input terminal (VIDEO5 INPUT/HDMI)**
Connect this terminal to the HDMI output terminal of DVD recorder/player or other video equipment.
If the HDMI output is connected, an Audio signal cable does not need to be connected.
When connecting a cable, attach a ferrite core to the cable. (See P. E-6.)

⑥ **RGB1 input terminal (RGB1 INPUT/mD-sub)**
Connect this terminal to the output terminal of a PC, set-top box, game, etc.

⑦ **SCART input terminal (VIDEO1 INPUT)**

⑧ **SCART input/output terminal (VIDEO2 INPUT)**
Connect this terminal to the SCART terminal of your VCR or DVD, etc. (See "Input Terminal" on P. E-35)
– about OUTPUT –
Digital terrestrial TV signals are converted to analog signals (Video) and output.
When switched to Video input and RGB input, the video signal of the last digital TV channel viewed (when OFF selected at Digital Tuner Power Save menu) or the timer reserved channel are output.

⑨ **Digital audio output terminal (AUDIO OUTPUT DIGITAL)**
Connect this terminal to the digital audio input terminal of the audio amplifier.
Digital audio signals are output in PCM format.

⑩ **Analog audio output terminal (AUDIO OUTPUT ANALOG)**
Connect this terminal to the analog audio input terminal of the audio amplifier.

⑪ **Component Video input terminal (VIDEO4 INPUT/Y P_B P_R)**

⑫ **Component Video input terminal (VIDEO3 INPUT/Y P_B P_R)**
Connect this terminal to the Component Video Output terminal of DVD recorder/player or satellite receiver.

⑬ **Audio4 input terminal (AUDIO4 INPUT)**

⑭ **Audio3 input terminal (AUDIO3 INPUT)**
Connect this terminal to the audio output terminal of VCR or PC, etc.

⑮ **Antenna input terminal (RF INPUT)**
Connect this terminal to the VHF/UHF antenna signal.

⑯ **CI Module slot (COMMON INTERFACE)**
Insert pay-TV carrier's CI Module into this slot, when receiving pay-TV. (See P. E-15.)

⑰ **Power input terminal**
Connect this terminal to the power cord supplied with the display.
When connecting a cable, attach a ferrite core to the cable. (See P. E-6.)

•The table below shows the settings of Audio inputs. (Factory setting)

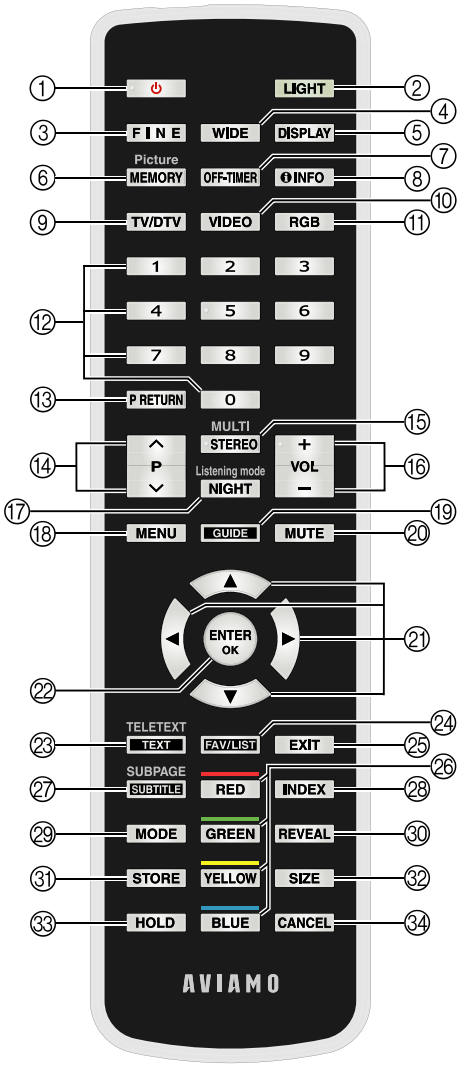
* For changing of Audio input settings, see "Audio Input" on P. E-36.

Video input	Audio Input
RGB1 (mD-sub)	No Audio
Video1 (SCART)	Audio1 (SCART)
Video2 (SCART)	Audio2 (SCART)
Video3 (Component Video)	Audio3
Video4 (Component Video)	Audio4
Video5 (HDMI)	Audio5 (HDMI)
Video6 (HDMI)	Audio6 (HDMI)

PART NAMES AND FUNCTIONS (Continued)

REMOTE CONTROL

For details, see page ➔.



① **(Power button) ➔ E-18**
Press to switch between Power ON and Off (Standby).

② **LIGHT (LIGHT button)**
Press to light the buttons of the remote control.
When no operation is performed, lighting of the buttons goes off after 8 seconds.

③ **FINE (FINE MODE button) ➔ E-23**
Press to switch the Picture Mode.

④ **WIDE (WIDE button) ➔ E-23**
Press to switch the screen size.

⑤ **DISPLAY (DISPLAY button) ➔ E-23**
Press to display the input mode and screen size status.
The status is displayed for about five seconds.

⑥ **Picture MEMORY (PICTURE MEMORY button) ➔ E-23, E-31**
Press to recall a Picture Memory.

⑦ **OFF-TIMER (OFF-TIMER button) ➔ E-23**
Press to specify the length of time until the power turns off (stand-by state) after the button is pressed.

⑧ **INFO (INFORMATION button) ➔ E-21**
Press to display the current channel information.

⑨ **TV/DTV (TV button) ➔ E-19, E-20, E-22**
Press to switch analog TV and digital terrestrial TV.

⑩ **VIDEO (Video input mode selector button) ➔ E-19**
Press to select VIDEO1 - 6.

⑪ **RGB (RGB input mode selector button) ➔ E-19**
Press to select RGB1.

⑫ **0 ~ 9 (Number buttons) ➔ E-19–E-22**
Use these buttons for the Program No. selection directly.
In the teletext broadcastings, input the 3 digits for the required teletext page to change the page.

⑬ **P RETURN (PROGRAM RETURN button) ➔ E-19**
Press to return to the previous channel, Video mode, or RGB mode.

⑭ **P ^ or P v (Channel Up/Down buttons) ➔ E-19, E-20, E-22**
Press to select the preset programs.
Use these buttons to scroll through a page in the teletext broadcasting.

⑮ **MULTI STEREO (MULTI/STEREO button) ➔ E-21, E-22**
Press to select the audio mode such as MTS (Multi-channel TV Sound) or stereo.

⑯ **+ VOL or VOL – (VOLUME buttons) ➔ E-18**
Press to adjust the volume.

⑰ **Listening mode NIGHT (NIGHT mode button) ➔ E-23**
Press to switch the audio mode of Listening mode Night.

⑱ **MENU (MENU button) ➔ E-26–E-43**
Press to display or hide the menu screen.
Use for Picture or Audio adjustment.

⑲ GUIDE **(GUIDE button) ➔ E-20**

Press to display the EPG (Electronic Program Guide) menu.

⑳ MUTE **(MUTE button) ➔ E-18**

Press to temporarily mute the audio.
To return the audio to normal, press this button once again, or press the + VOL or VOL – .

㉑ , , , or **(Adjustment buttons) ➔ E-20–E-22, E-26–E-43**

Press to select the adjustment item or adjust the value in the Menu screen, and to use in the teletext broadcasting.

㉒ ENTER OK **(ENTER button) ➔ E-20–E-21, E-26–E-43**

Press to confirm the setting you made with the Adjustment buttons.

㉓ TELETEXT / TEXT **(TELETEXT / TEXT button) ➔ E-21, E-22**

Press to switch to the teletext broadcastings (selectable only when watching the TV).

㉔ FAV/LIST **(FAVOURITE / LIST button) ➔ E-20, E-41**

Press to diplay a detected channel list when TV Favourite Channel List and Auto Scan were performed.

㉕ EXIT **(EXIT button) ➔ E-26, E-38**

Use to exit from a menu screen.

㉖ RED GREEN YELLOW BLUE **(COLOR button) ➔ E-20–E-22, E-41, E-43**

Used at teletext broadcasting and digital terrestrial TV menu setting.

㉗ SUBPAGE / SUBTITLE **(SUBPAGE /SUBTITLE button) ➔ E-20, E-22**

Press to display the SUBPAGE or SUBTITLE.

㉘ INDEX **(INDEX button) ➔ E-21, E-22**

Use in the teletext broadcasting.

㉙ MODE **(MODE button) ➔ E-22**

Use in the teletext broadcasting.

㉚ REVEAL **(REVEAL button) ➔ E-21, E-22**

Use in the teletext broadcasting.

㉛ STORE **(STORE button) ➔ E-22**

Use in the teletext broadcasting.

㉜ SIZE **(SIZE button) ➔ E-21, E-22**

Use in the teletext broadcasting.

㉝ HOLD **(HOLD button) ➔ E-21, E-22**

Use in the teletext broadcasting.

㉞ CANCEL **(CANCEL button) ➔ E-22**

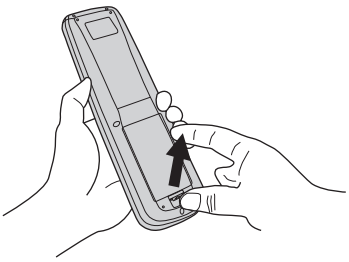
Use in the teletext broadcasting.

Note

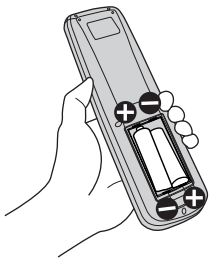
- When the buttons are lighted by pressing LIGHT , the battery life is shortened.

USING THE REMOTE CONTROL

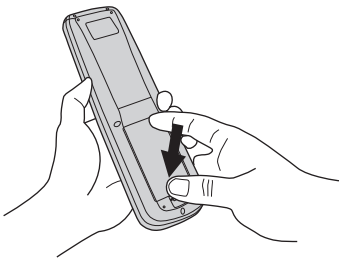
PUTTING BATTERIES IN THE REMOTE CONTROL



(1) To remove the cover, slide it outwards while pressing it down.



(2) Place two AA batteries in the remote control. Make sure that the batteries are properly oriented.



(3) Close the cover until it snaps into place.

PRECAUTIONS

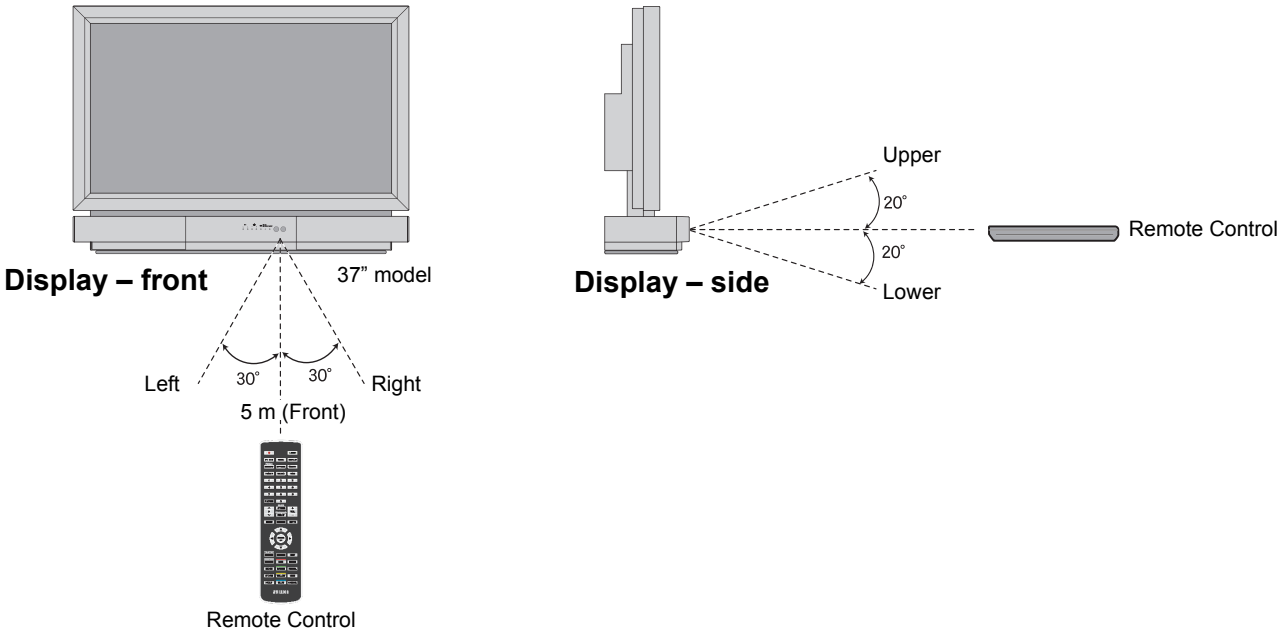
- To prevent malfunction, do not apply any form of severe shock to the remote control.
- To prevent malfunction or deformation, do not allow the remote control to become wet and keep it away from hot surfaces or heating equipment.
- Do not clean the remote control using a cloth dampened in a volatile solvent, such as benzene or thinner.

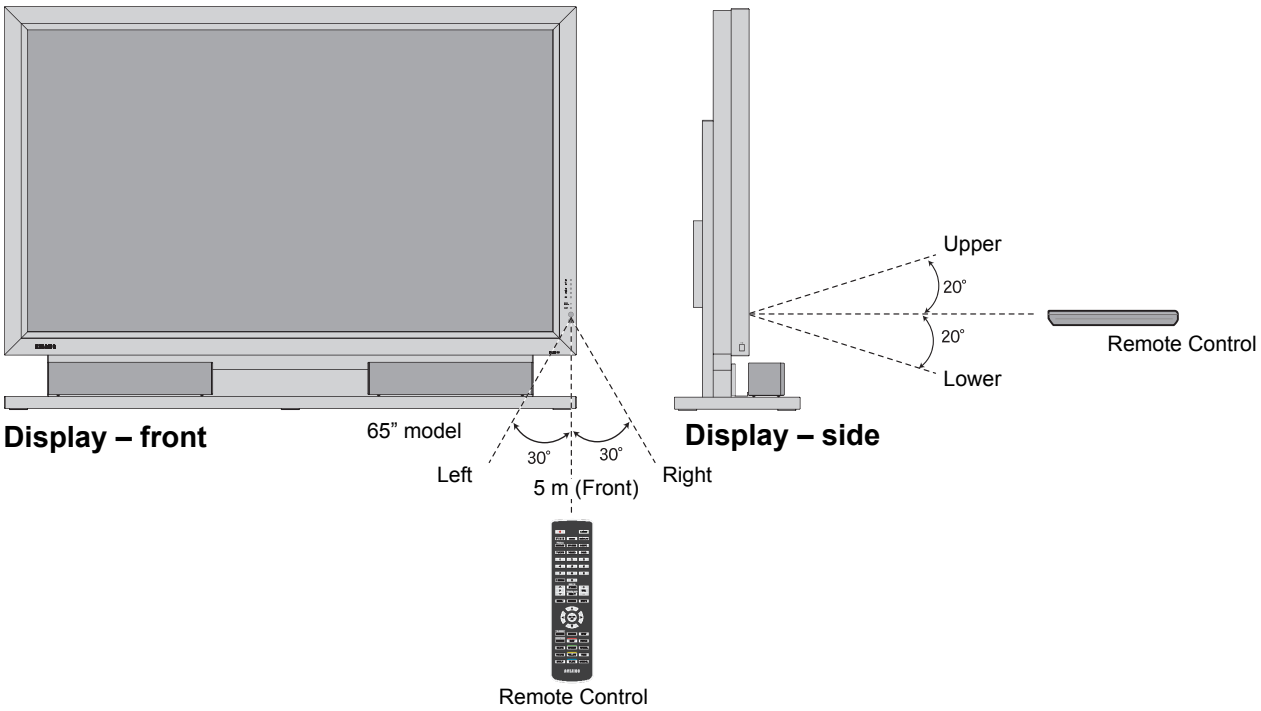
CAUTION

It is very important to use replacement batteries of the same type as the originally used. Do not use rechargeable batteries (Ni-Cd, etc.).
When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country/area.

EFFECTIVE RANGE FOR THE REMOTE CONTROL

When using the remote control, be sure to point it directly at the display's signal receiver.
Make sure that there are no obstacles between the remote control and the display's signal receiver.



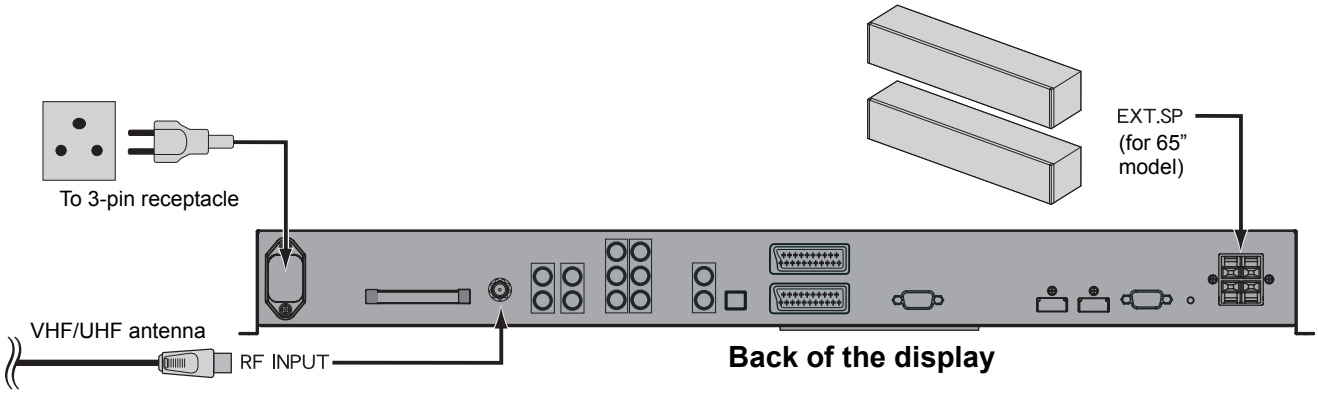


Note

- The remote control will not function properly if the batteries are dead. Be sure to replace them as needed.
- When used by lighting the remote control buttons frequently, use by purchasing an alkali battery is recommended.
- The remote control may not function properly if a high-frequency fluorescent lamp or the like is used. In this case, move the lamp or use the remote control from a different position.

BASIC CONNECTION AND PREPARATION OF THE SYSTEM

• Before this display can be operated for the first time, the connections and settings below must be completed.



* For best reception (of terrestrial signal), an outdoor antenna (OTA) is recommended.

CONNECTIONS TO THE DISPLAY

1. **Connect the antenna line.**
2. **Connect the speakers. (For details, see the optional manual "Speaker Unit Installation manual", for 65" model.)**
3. **Connect external equipment such as a DVD Player. (For details, see "CONNECTING TO EXTERNAL EQUIPMENT", "EXAMPLE OF CONNECTING EXTERNAL EQUIPMENT" P. E-16, E-17.)**

INITIAL SETTING TO WATCH TV

4. **Connect the display power cable to an AC outlet and turn on the power. (Perform detailed operation in accordance with "Power On" on P. E-18.)**

• To watch digital terrestrial TV

5. **Press TV/DTV to select the digital terrestrial TV mode. (See P. E-20 for more information.)**
6. **Execute Auto Scan. (See P. E-41 for more information.)**
7. **Select the program you want to watch.**

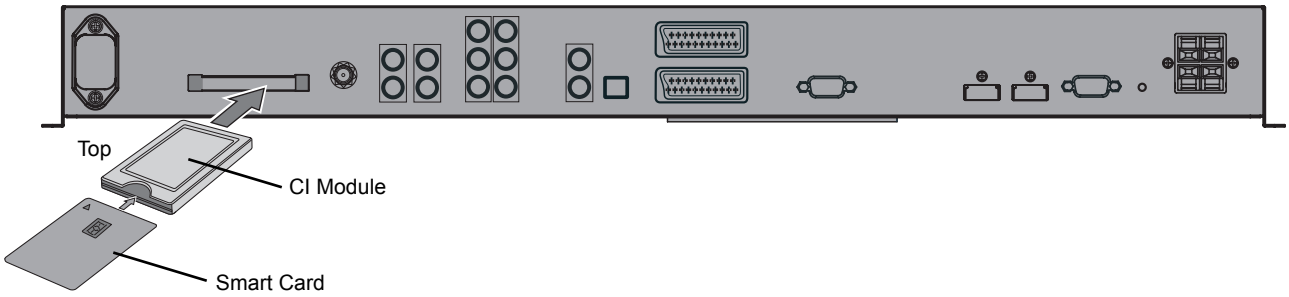
• To watch analog TV

5. **Press TV/DTV to select the analog TV mode. (See P. E-22 for more information.)**
6. **Execute Auto Scan. (See P. E-39 for more information.)**
7. **Select the program you want to watch.**

TO WATCH PAY-TV (When there is a CI Module and Smart Card)

* To watch pay-TV broadcasts, conclude a contract with the pay-TV carrier before connecting/installing this product. Consult your pay-TV carrier for more information.

1. **Insert the Smart Card at CI Module.**
2. **Turn off the power and insert the CI Module.**
   The CI Module and Smart Card are supplied when the contract is concluded with the pay-TV carrier.



* Insert the CI Module and Smart Card specified by the pay-TV carrier.

3. **Turn on the power. (Perform detailed operation in accordance with "Power On" on P. E-18.)**

----- About pay-TV -----

- To watch pay-TV, you must conclude a contract with the pay-TV carrier in the area you want to watch.
- After concluding the contact, a CI Module and Smart Card will be supplied by the pay-TV carrier. TV viewing is possible by inserting the CI Module into the CI Module slot in this product.

----- Notes -----

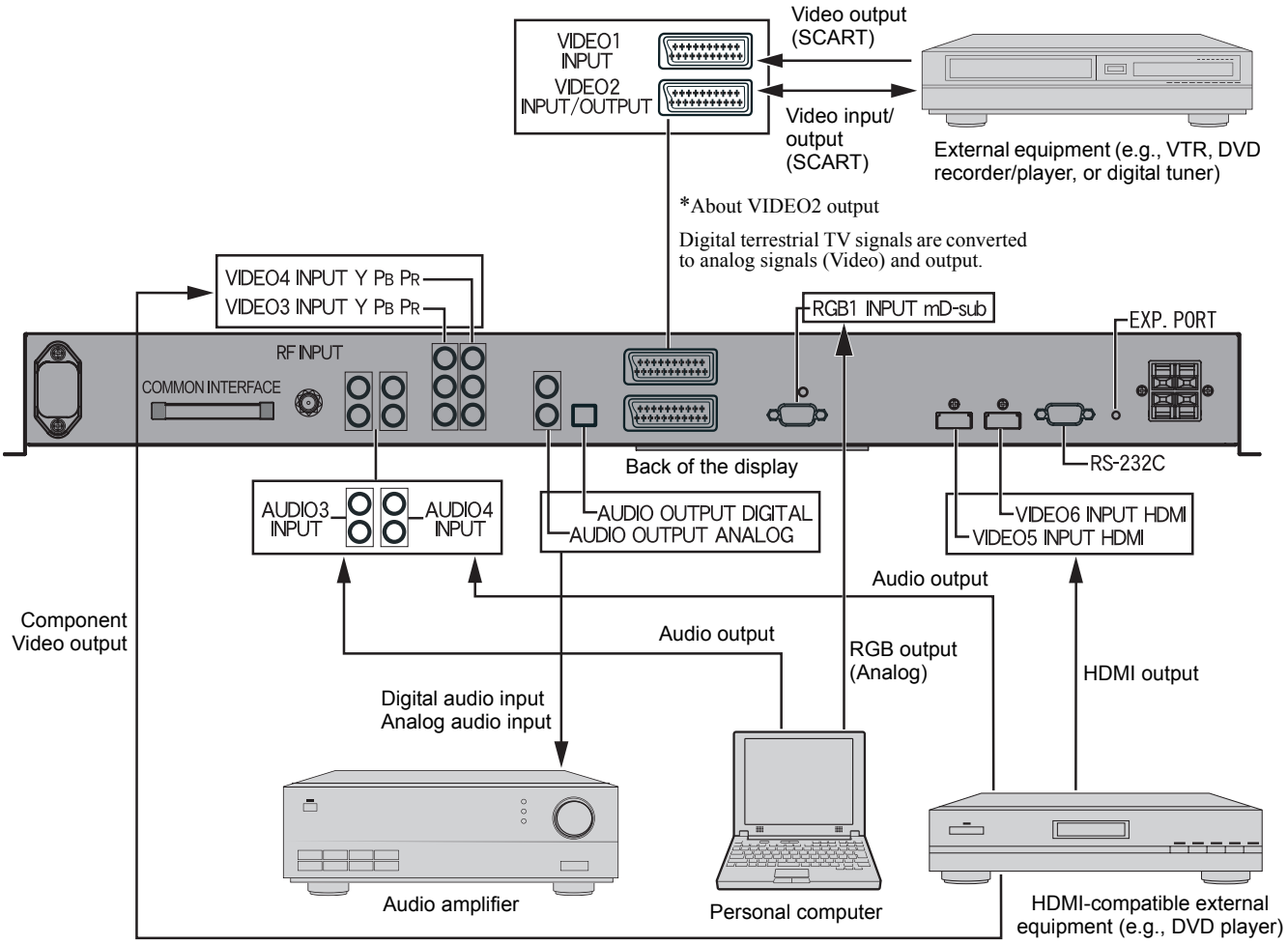
- Use the dedicated CI Module and Smart Card supplied by the pay-TV carrier.
- Insert the CI Module slowly until it locks.
- If anything other than the dedicated CI Module is inserted into the slot, the slot may be damaged.
- Turn off the power before inserting or removing the card.

----- CI Module removal -----

- Turn off the power and pull out the CI Module by hand.
- Since the CI Module may become hot, be careful when holding it in your hand.

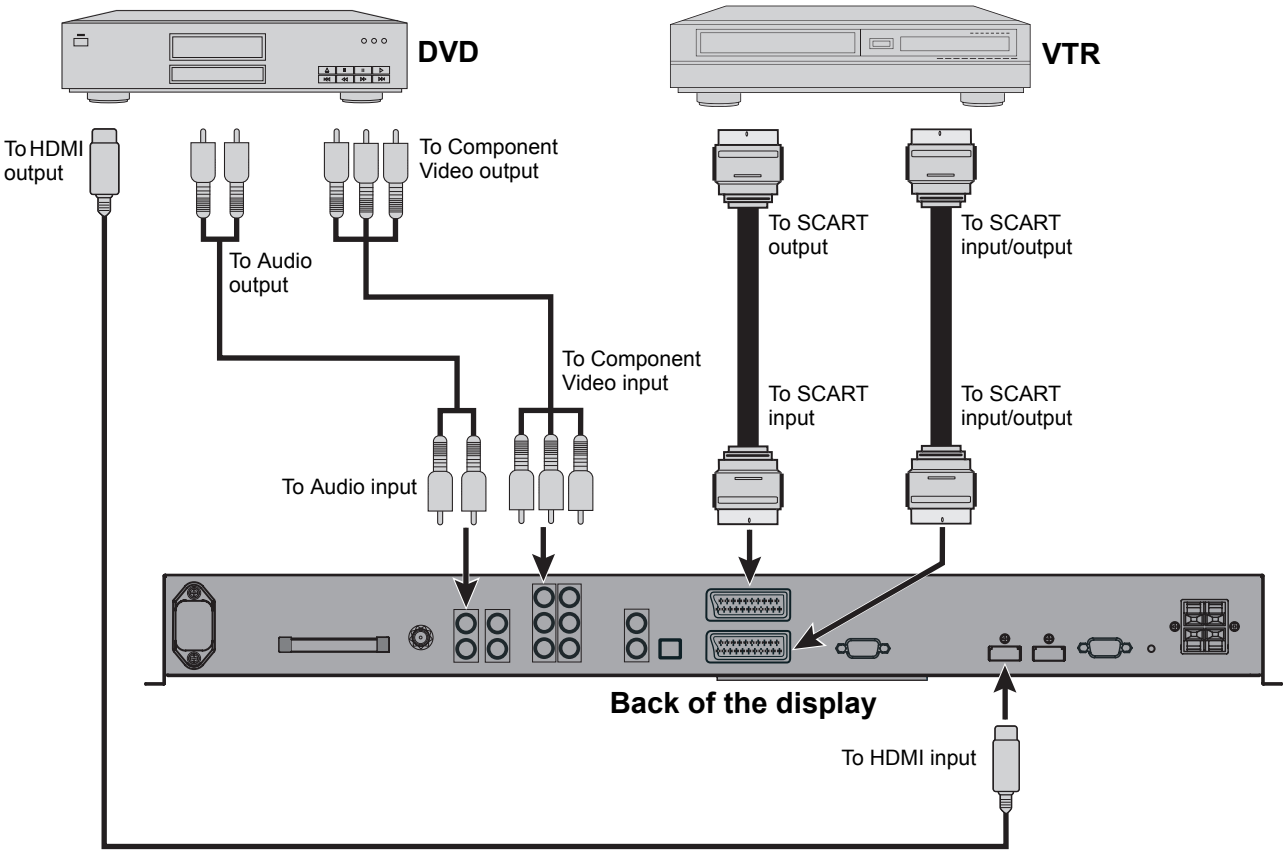
CONNECTING TO EXTERNAL EQUIPMENT

- Before external equipment is connected, all the power cables must be unplugged.
- For the terminal names, see P. E-8.
- If the equipment to be connected is equipped with HDMI output terminal and component video output terminal, it is recommended to connect to one side or the other. (If the HDMI output is connected, an Audio signal cable does not need to be connected.)
- Refer to instruction manual for the equipment to be connected.
- There are two audio inputs (HDMI audio excluded). Set them according to Audio Input on P. E-36.



EXAMPLE OF CONNECTING EXTERNAL EQUIPMENT

- Connect the Video signal cable to the HDMI input terminal, Component Video input terminal, or SCART terminal.
- If the equipment to be connected is equipped with HDMI out put terminal and Component Video output terminal, it is recommended to connect to only one of the terminals.
- If the HDMI input or SCART input is connected, an Audio signal cable does not need to be connected.



Note

- Unplug the power cord from the AC outlet before you connect external equipment.
- You should also refer to the instructions for the equipment to be connected.

BASIC OPERATIONS

Power ON

1 **Press ⏻/I to the ON ⏻ state.**

The power lamp lights up. (See P. E-7.)

2 **Press [⏻].**

The power is turned on, and the power lamp changes from “Red” to “Green.”

Select the Video, RGB, or TV mode to enable ordinary operation.

Power OFF (Standby State)

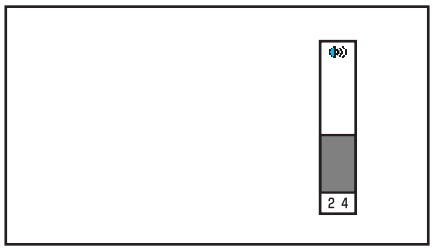
1 **Press [⏻] when the power is “ON”.**

The power lamp changes from “Green” to “Red” and the display becomes the standby state.

VOL (Volume)

Press [+ VOL] to increase the volume.

Press [VOL –] to reduce the volume.



When the volume adjustment button is pressed

* Note that the volume level remains stored even when you turn OFF the power.
* Volume menu will not be displayed when “No Audio” is selected. (See P. E-36.)
* An audio signal from an audio output terminal (AUDIO OUTPUT DIGITAL or AUDIO OUTPUT ANALOG) does not change.

MUTE

Press [MUTE].

The audio is removed.

Press again to restore the audio to the original level.

The mute mode can also be released by pressing [+ VOL] or [VOL –].

* An audio signal from an audio output terminal (AUDIO OUTPUT DIGITAL or AUDIO OUTPUT ANALOG) does not change.

Note

- If the operation is not executed for about 60 seconds, the menu disappears.
- Some functions are not available depending on the state or condition of use.

WATCHING TV, VIDEO, OR PICTURES ON PC

TV/DTV

Select the TV mode to watch analog TV broadcasts (ATV) and digital terrestrial TV broadcasts (DTV).

1 Press TV/DTV.

Each time this button is pressed, analog TV and digital terrestrial TV are switched to each other. When "DTV" was displayed at the top right side of the screen when the broadcast was switched, it is digital terrestrial TV and when "A:**" was displayed, it is analog TV.

2 Switch to the channel you want to watch.

There are the following 2 switching methods:

- Use 1 to 9 and 0 to select the channel.
- Use ^ P or P v to switch the channel.

* For more information, see "BASIC CONNECTION AND PREPARATION OF THE SYSTEM" P. E-14.

P RETURN (PROGRAM RETURN)

The program can be toggled back to a previous channel, video input or RGB input.

Press P RETURN.

The program reverts to the channel viewed immediately before the present channel. If the previous content was from another video input, the video mode reverts to that input.

VIDEO

Press VIDEO.

You can select from VIDEO1 mode to VIDEO6 mode.

The video modes corresponding to each input terminal are as follows.

- VIDEO1: SCART
- VIDEO2: SCART
- VIDEO3: Component Video
- VIDEO4: Component Video
- VIDEO5: HDMI
- VIDEO6: HDMI

Video1 mode

* For selection of the input terminal, see "Input Terminal" on P. E-35.
* You can also change VIDEO mode by pressing 1 – 6 during "Video" indication on the screen by pressing VIDEO .

RGB

Press RGB.

The input terminal of RGB mode is as follows.

- RGB1: mD-sub.

RGB1 mode

* For selection of the input terminal, see "Input Terminal" on P. E-35.

About LOCK (Channel Lock)

- The Lock function allows parents to block viewing of programs considered unsuitable for children.
- Use "CHANNEL MANAGER" on P. E-41 to set Lock (Channel Lock) for each channel.

WATCHING DIGITAL TERRESTRIAL TV

TV/DTV

Displays digital terrestrial TV broadcasts.

1 **Press [TV/DTV].**

Select digital terrestrial TV broadcast (DTV).

When "DTV" was displayed at the top right side of the screen, it is digital terrestrial TV broadcast.

2 **Switch to the channel you want to watch.**

There are the following 2 switching methods:

- Use [1] to [9] and [0] to select the channel.
- Use [P^] or [Pv] to switch the channel.

* When the channel that sets the lock is received, a password input screen is displayed. The TV broadcast can be watched by entering the password.

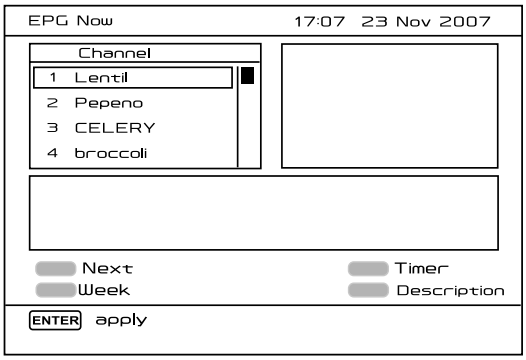
* When the channel is switched, the channel information screen is displayed. (When information cannot be sufficiently acquired, "No Event Information" may be displayed.)

* For more information, see "BASIC CONNECTION AND PREPARATION OF THE SYSTEM" P. E-14.

GUIDE

Displays the EPG (Electronic Program Guide) screen.

1 **Press [GUIDE].**



"EPG Now" screen

Press ◄ or ► to select your favourite channel. (When ENTER is pressed, the display shifts to the selected channel.)

The display can be switched with the following buttons:

- [RED] (Next): Displays the next program. When pressed again, returns to the current program.
- [GREEN] (Week): Displays the programs for an entire week.
- [YELLOW] (Timer): Advances to the TIMER REC OUT setup screen.
- [BLUE] (Description): Advances to the Description screen (program information).

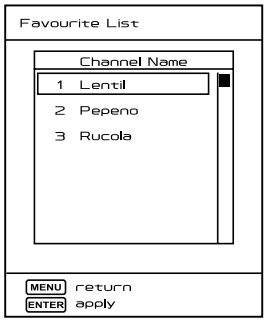
* When [GUIDE] is pressed again, the EPG screen disappears.

* EPG information cannot be displayed when it is not being broadcast or when it cannot be acquired.

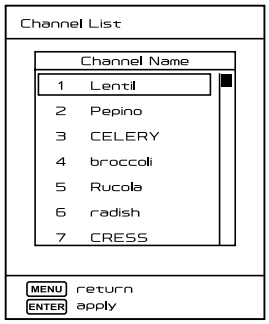
FAV/LIST

Displays the Favourite Channel List and the Channel List acquired by Auto Scan.

Press [FAV/LIST].



"Favourite List" screen



"Channel List" screen

Each time this button is pressed, the displayed list is switched as follows:

→ Favourite List → Channel List → (No display) →

- To select channel from Favourite List

Use ◄ or ► to select the channel you want to watch from the Favourite List and press ENTER.

The selected channel is displayed.

* To register your favourite channel to Favourite List, see P. E-41.

* When nothing is registered in Favourite List, a list is not displayed.

- To select a channel from Channel List

Use ◄ or ► to select the Channel Name you want to watch from a scannable channel list and press ENTER.

The selected channel is displayed.

* When Auto Scan is executed and the program information cannot be acquired, channel list is not displayed. (See P. E-41.)

SUBTITLE

Subtitles can be viewed.

1 **Press [SUBTITLE].**

When [SUBTITLE] is pressed again when the menu screen displaying the Subtitle state is displayed, subtitles are displayed.

* When there are multiple languages which can be displayed at the received TV signal, the displayed language is switched each time this button is pressed.

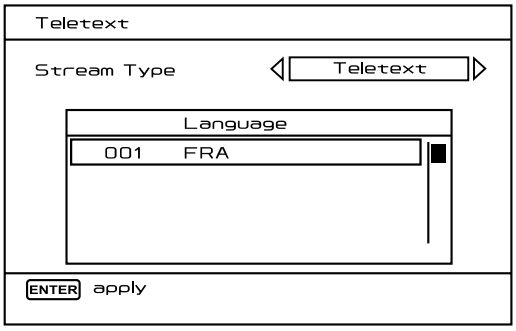
* This is effective only when the broadcast signal contains a subtitle signal.

* When setting the priority level of the languages to be displayed, see "LANGUAGE ~ Pref. Subtitle" (P. E-40).

TEXT

Digital terrestrial TV teletext or subtitle can be watched.

1 **Press TELETEXT [TEXT].**



"Teletext" screen

Press ◄ or ► to select the Stream Type.

Press ▲ or ▼ to switch the displayed Language.

Press ENTER/OK to display the teletext or subtitle.

* Setup screen may not be displayed.

2 **This operation uses the [0] to [9], [RED], [GREEN], [YELLOW], [BLUE], ▲, ▼, ◄, ►, [∧ P], [P ∨], and ENTER/OK buttons on the remote control.**

* The operation method varies depending on the channel. The following buttons may also be used.

- SUBPAGE [SUBTITLE] :Press to switch to the SUBPAGE program input mode.

  Use the [0] to [9] numeric buttons to select the SUBPAGE program which you would like to watch.

  When SUBPAGE [SUBTITLE] is pressed again, returns to the normal Teletext mode.

  (When returned to the normal Teletext mode, the program number displayed at the top left side of the Teletext screen is highlighted.)
- [REVEAL] :Press to display hidden text (such as the answers to quizzes, etc).
- [HOLD] :Press to hold the transmission of the teletext program you are currently watching.
- [SIZE] :Press to change the size of the current watching page.
- [INDEX] :Press to return to the INDEX page.

* At teletext broadcasts, there may be remote control buttons that do not work. When you want to operate, reset teletext broadcast.

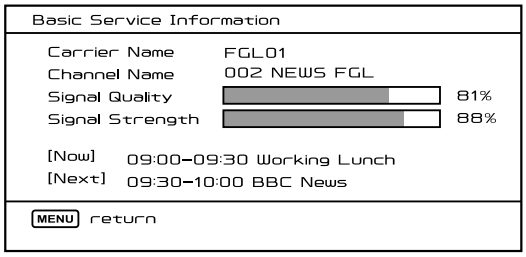
INFO (INFORMATION)

Displayed the information for the channel currently being viewed.

Displays the Carrier Name, Channel Name, Signal Quality, Signal Strength, Now (present program content), and Next (next program content) as in the figure below.

1 **Press [INFO].**

When [INFO] is pressed again, the display goes off.



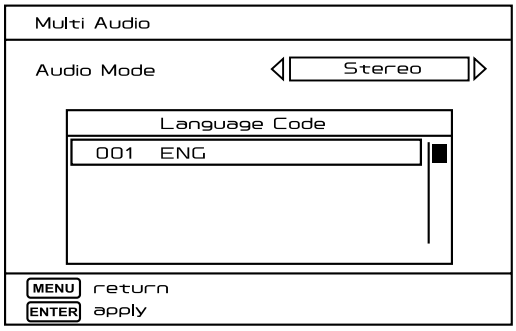
"Basic Service Information" screen

MULTI

The audio mode is switched.

1 **Press MULTI [○STEREO].**

Each time this button is pressed, the audio mode is switched. The switching varies depending on the broadcasting contents.



"Multi Audio" screen

Press ◄ or ► to switch the audio mode as shown below.

↔ Stereo ↔ Left ↔ Right ↔ L + R ↔

When the language can be switched, the mode can be switched by using ▲ or ▼.

Press ENTER/OK to store the information.

* The switching method is determined by the program you are watching.

WATCHING ANALOG TV

TV/DTV

Selects and displays analog broadcast.

1 **Press [TV/DTV].**

Selects analog TV (ATV). Analog broadcast is indicated by "A" at the beginning of the channel No. displayed when the broadcast was switched.

2 **Switch to the channel you want to watch.**

There are the following 2 switching methods:

- Use [1] to [9] and [0] to select the channel.
- Use [P^] or [PV] to switch the channel.

* For more information, see "BASIC CONNECTION AND PREPARATION OF THE SYSTEM" P. E-14.

STEREO

- Switch the audio mode.

Press [MULTI STEREO].

This function enables selection of the audio mode when there is a dual-channel broadcast. Each time this button is pressed, the mode is switched as shown in the figure below.

→ Dual-I → Dual-II → Stereo → Mono →

Depending on the broadcast, this function may not be available.

TELETEXT

- Analog broadcast Teletext can be viewed.

Press [TELETEXT TEXT].

- This enables teletext broadcasts to be viewed. (superimposed over the ATV program)

  The teletext broadcasting INDEX screen is received.

- Press [TV/DTV], [VIDEO], or [RGB] to return to the other modes.

  * Whenever [TELETEXT TEXT] is pressed, the screen switches between teletext screen superimposed over the analog TV program and teletext-only screen.

• Displays the teletext page program.

The teletext page program is displayed when 3 digit number by [0] – [9] and [RED], [GREEN], [YELLOW], [BLUE], ◁, ▽, ◁, or ▷ is pressed.

• Storing and displaying favourite teletext programs.

(1) Press [MODE] to select the LIST mode.

(2) Press [RED], [GREEN], [YELLOW], or [BLUE] to select the color button for storing the teletext page program.

(3) Press [STORE] for three seconds at least to store the displaying teletext program to the color button. (During the storing operation, the color button momentarily turns white.)

(4) In the LIST mode, press [RED], [GREEN], [YELLOW], or [BLUE] to display the stored teletext page program.

• The following operations can also be performed using the remote control buttons:

[RED] [GREEN] [YELLOW] [BLUE] : In the teletext broadcasting, press these buttons to switch through the pages stored to each of the four colors in the LIST mode. Other than the LIST mode, these buttons can also be used for the colored option selected from the four teletext new options displayed at the bottom of the screen.

[SUBPAGE SUBTITLE] : Press to display the SUBPAGE.

[REVEAL] : Press to display hidden text (such as the answers to quizzes, etc).

[HOLD] : Press to hold the transmission of the teletext program you are currently watching.

[SIZE] : Press to change the size of the current watching page.

[INDEX] : Press to return to the INDEX page.

[MODE] : Switches to the LIST mode. Press this button once again to return to the current mode.

[STORE] : In LIST mode, saves the current display to the Favourite page.

[CANCEL] : Press to temporarily watch TV. Press [CANCEL] again to return to the teletext page. This function is convenient when searching a teletext page while watching TV.

* At teletext broadcasts, there may be remote control buttons that do not work. When you want to operate, reset teletext broadcast.

OTHER BASIC OPERATIONS

Listening mode NIGHT

When the NIGHT mode is used when watching TV, even low volume sounds can be heard clearly. This function is convenient when watching TV at night.

Press Listening mode [NIGHT] .

Each time this button is pressed, the setting changes as follows.

→ Normal → Night →

[Normal]: Normal sound.

[Night]: Volume is lowered without changing the sound quality. The volume of sudden loud sounds, etc. is also suppressed.

DISPLAY

Press [DISPLAY].

Press this button to display the Program No., input mode, and screen size status.

OFF TIMER

Press [OFF-TIMER].

This can be used to set the time before the power is turned off (Stand-by state). Each time this button is pressed, the setting changes as follows.

→ Off → 30min. → 60min. → 90min. → 120min. →

FINE

Press [FINE].

This button can be used to switch the picture mode.

In the picture mode, you can switch between the set status and the "Fine" mode.

* For the picture mode settings, see "Picture Mode (P. E-27)".

* While you are watching pictures in Fine mode, pressing the button does not switch the mode.

PICTURE MEMORY

Press Picture [MEMORY].

This button can be used to recall the settings of the picture memories 1 – 8. Each time this button is pressed, the setting changes as follows.

→ Memory1 → Memory2 → Memory3 → Memory4 → Memory5 → Memory6 → Memory7 → Memory8 →

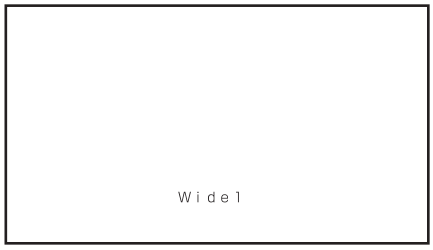
* For the picture memory settings, see "Picture Memory (P. E-31)".

WIDE

This function switches among available picture display modes.

1 **Press [WIDE].**

The currently selected mode will appear.



Wide1 mode

2 **Press [WIDE] to select a desired Screen Size.**

Each time you press [WIDE], a different Screen Size appears. The sequences used are as follows:

・Video mode (SD signal)

→ Normal → Wide1 → Wide2 → Zoom1 → Zoom2 →

・Video mode (HD signal)

→ Wide1 → Wide2 → True Signal →

・RGB mode

→ Normal → Wide → Zoom →

* Depending on the type of signal, some aspects may not be selected.

* When the Wide function is used to select the Zoom1 or Zoom2 mode, it may not be possible to display part of the menu screen.

Note

- When the WIDE mode is set to "Normal", and pictures are shown for an extended time, a residual image or "burn-in" may be created. The burn-in may occur at the boundary where the left and right borders of the picture meet the vertical bars. To reduce the chance of "burn-in" when watching in the "Normal", we recommend you set the "Background" to "Light Gray." (See P. E-37.)
- When a residual image was created, it is reduced by using the "White screen" settings. Note that there may also be cases when it can not be recovered completely. (See P. E-37.)
- A variety of Screen Sizes are available with this display. Remember that if you select a mode with an aspect ratio (ratio of frame width to frame height) different from that of the TV program or video media, the pictures will appear differently than if you had selected a mode having the same aspect ratio.
- Showing a movie or similar premium event at a different aspect ratio from its original one at any event site, restaurant, or bar for profit-making purposes or for a public audience may constitute a copyright infringement.
- In order to avoid copyright infringement, select a mode having the same aspect ratio as the original picture.

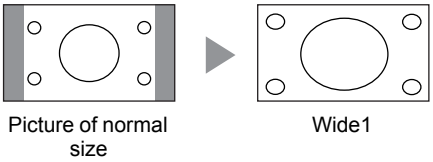
SCREEN SIZE

Normal

Displaying normal size picture (i.e. a 4:3 aspect ratio).

Wide1

- Video mode (SD signal)



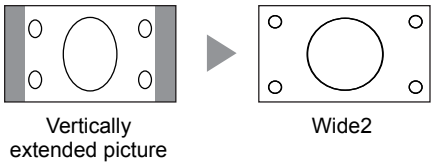
Displays natural-looking pictures of normal size on the wide screen.

- Video mode (HD signal)

Displays Wide size (16:9 aspect ratio) pictures.

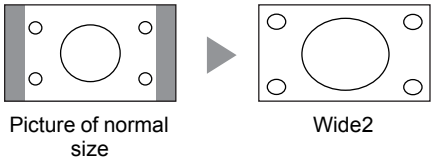
Wide2

- Video mode (SD signal)



Ideal for displaying vertically extended pictures such as anamorphic (squeezed widescreen) pictures.

- Video mode (HD signal)



An HD signal picture displayed in Normal size is displayed as wide screen with minor image stretching.

Wide

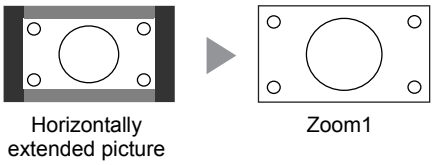
Displays Normal size picture as wide screen.

True Signal

Displays a pure picture without expansion or contraction of the picture signal.

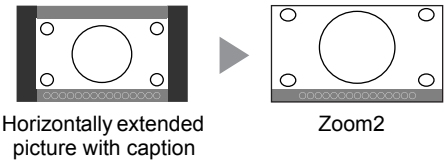
(for 1080i / 1080P signal)

Zoom1/Zoom



Enlarges horizontally extended pictures equally in all directions to maintain the aspect ratio constant.

Zoom2



Reduces the height of horizontally extended pictures with captions, without eliminating the caption. Only the height of pictures is reduced, not the height of the caption.

(Captions may not be easy to read, however, depending on the picture.)

* The Zoom mode display method may be different, depending on the input signal.

ASPECT RATIO

The following aspect ratios are available.

VHF/UHF broadcasting, BS broadcasting

4:3 aspect ratio

HDTV broadcasting

16:9 aspect ratio

Vista Vision size

1.85:1 aspect ratio

Cinema Scope size

2.35:1 aspect ratio

Note

- Depending on the type of signal, some aspects may not be selected.
- You may find dark areas on top and at the bottom of the screen if you select one of the Zoom modes for media while using the Vista Vision or Cinema Scop size i.e., the sizes used frequently for picture software.

ADJUSTMENT MENU

The numbers in parentheses ( ) indicate the reference page numbers.

Display Menu (E-27)	PICTURE (E-27)	Signal Contrast (E-27)			
		Drive Contrast (E-27)			
		Brightness (E-27)			
		Color (E-27)			
		Tint (E-27)			
		Sharpness (E-27)			
		Ambient Sensor (E-27)			
		Picture Mode (E-27)			
		Precision Setting (E-28)	Black Level (E-28)		
			Detail Gradation (E-28)		
			3D NR (E-28)		
			CODEC NR (E-28)		
			Image Enhance (E-28)	Image Identify (E-28)	
				Chroma Transient (E-28)	
			Color Temp. (E-28)		
			User Color Temp. (E-28)		
			Color Tuning (E-29)		
			Progressive Scan (E-29)	24 Frame Mode (E-29)	
				30 Frame Mode (E-29)	
				Jaggies Filter (E-30)	
				Motion Setting (E-30)	
			Gamma (E-30)	High Point (E-30)	
				High Point Gain (E-30)	
				Low Point (E-30)	
				Low Point Gain (E-30)	
			ALC Setting (E-30)	High Point Level (E-30)	
				High Point Gain (E-30)	
				High Point Limit (E-30)	
				Low Point Level (E-30)	
				Low Point Gain (E-30)	
				Low Point Limit (E-30)	
			PAL 3D Y/C (E-31)		
		Picture Memory (E-31)	Load (E-31)		
			Save (E-31)		
		Default			
	AUDIO (E-32)	Treble (E-32)			
		Bass (E-32)			
		Balance (E-32)			
		Loudness (E-32)			
		Sound Mode (E-32)			
	POSITION/SIZE (E-33)	Position (E-33)	Horizontal (E-33)		
			Vertical (E-33)		
		Size (E-33)	Width (E-33)		
			Height (E-33)		
		Default			
	FEATURES (E-34)	Adjustment (E-34)	Dot Clock (E-34)		
			Clock Phase (E-34)		
			Clamp Position (E-34)		
			Auto Calibration (E-34)		
		On Screen Menu (E-34)	OSD (E-34)		
			Language (E-34)		
			Name Select (E-35)		
		Input Terminal (E-35)	D-SUB Input (E-35)		
			Video1 (E-35)	Function (E-35)	
				Video Format (E-35)	
			Video2 (E-35)	Function (E-35)	
				Video Format (E-35)	
		Others (E-36)	Auto Off-NO SIG. (E-36)	Time (E-36)	
				Background (E-36)	
			Digital Tuner Power Save(E-36)		
			Audio Input (E-36)		
			Screen Orbiter (E-36)	Mode/Time (E-36)	
				Moving Area (E-36)	
			Direct Setting (E-37)		
			Code Setting (E-37)		
			White Screen (E-37)		
			Background (E-37)		
			Information (E-37)		
	FACTORY DEFAULT (E-38)				
TV Menu (Analog TV) (E-39)	Auto Scan (E-39)				
	Manual Scan (E-39)				
	Sort (E-39)				
TV Menu (Digital TV) (E-40)	LANGUAGE SETUP (E-40)	Menu (E-40)			
		1 st Pref. Audio (E-40)			
		2 nd Pref. Audio (E-40)			
		3 rd Pref. Audio (E-40)			
		Pref. Subtitle (E-40)			
	CHANNEL MANAGER (E-41)	Fav, Lock, Delete (E-41)			
		Sort (E-41)			
		TV / Radio (E-41)			
	SYSTEM INSTALLATION (E-41)	Auto Scan (E-41)			
		Manual Scan (E-41)			
		Carrier Setup (E-41)			
	SYSTEM CONFIGURATION (E-42)	Time Setup (E-42)	Time Mode (E-42)		
			UTC Offset (E-42)		
		Password Setup (E-42)	Password Mode (E-42)		
			Parental Lock (E-42)		
			Password change (E-42)		
	COMMON INTERFACE (E-42)				
	TIMER REC OUT (E-43)				
	ACCESSORIES (E-43)	Version (E-43)			
		Software Upgrade (E-43)			

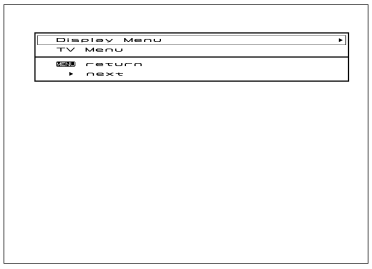
Note

- Some functions are not available depending on the state or condition of use.

BASIC PROCEDURES OF ADJUSTMENT MENU

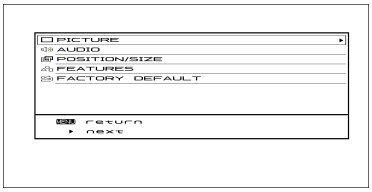
- Shown below is the basic procedure used to change the options on the ADJUSTMENT MENU. (Ex.: Adjusting tint setting (Tint))
- Selecting the adjustment mode for adjustment or setting. (The items to be adjusted or set are stored for each adjustment mode.)

1 Press MENU.



The "Main Menu" screen will appear.

2 Press ▲ or ▼ to select "Display Menu" and press ▶ or ENTER.



"Display Menu" selected in the main menu screen

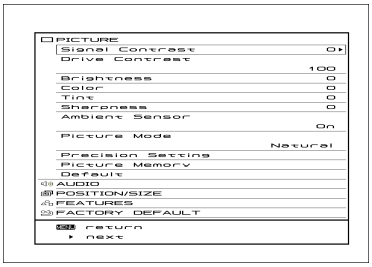
The "Display Menu" appears.

3 Press ▲ or ▼ to select "PICTURE" and press ▶ or ENTER.

Each time you press ▲ or ▼, one of the available menus appears in the following sequence:

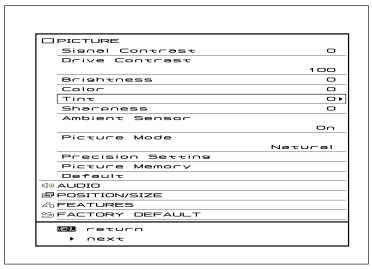
PICTURE ↔ AUDIO ↔ POSITION/SIZE ↔ FEATURES ↔ FACTORY DEFAULT

The "PICTURE" menu screen will appear.



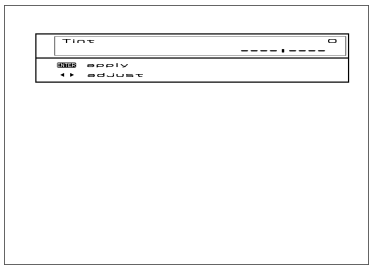
"PICTURE" selected in the main menu screen

4 Press ▲ or ▼ to select "Tint".



"Tint" selected in the PICTURE menu screen

5 Press ▶ or ENTER, and press ◀ or ▶ to change Tint values.



"Tint" adjustment screen

▶: More greenish colors
◀: More purplish colors

6 Press ENTER to store.

7 Press MENU or EXIT when you finish.

* Repeat steps 3, 4, 5 and 6 when you wish to make changes to other options.
* Select "Default" and press ENTER, and then select "Yes" and press ENTER.

  The PICTURE items are changed back to the default settings available when the display was purchased.
* Press MENU or EXIT to halt the operation in progress.

ADJUSTING TO A DESIRED PICTURE (PICTURE MENU)

- Picture-related items can be set and adjusted in the Picture Adjustment Screen. See BASIC PROCEDURES OF ADJUSTMENT MENU on P. E-26 for the basic procedures.

Signal Contrast

Press ▶ to increase the input signal contrast.
Press ◀ to reduce the input signal contrast.
Press ENTER/OK to store.

Drive Contrast

Press ▶ to raise the display's luminance level, and increase the contrast.
Press ◀ to lower the display's luminance level, and reduce the contrast.
Press ENTER/OK to store.

* If Ambient Sensor is ON, the change made by this adjustment may be difficult to be recognized in too bright or dark a place.

* When the temperature inside the product is high, changes when this adjustment was made may be difficult to comprehend.

Brightness

Press ▶ to increase the brightness.
Press ◀ to reduce the brightness.
Press ENTER/OK to store.

Color

Press ▶ to darken the color.
Press ◀ to lighten the color.
Press ENTER/OK to store.

Tint

Press ▶ to change the tint to a more greenish color.
Press ◀ to change the tint to a more purplish color.
Press ENTER/OK to store.

Sharpness

Press ▶ to sharpen the Sharpness.
Press ◀ to soften the Sharpness.
Press ENTER/OK to store.

Ambient Sensor

Automatically adjusts the picture quality to an optimized level that matches the brightness of the ambient light.
Each time ◀ or ▶ is pressed, the setting is switched.

↔ On ↔ Off ↔

Press ENTER/OK to store.

Picture Mode

Each time you press ◀ or ▶, the available choices appear in the following sequence.

↔ Natural ↔ Fine ↔ Effective ↔ Conventional ↔ Still ↔

Natural	Enables you to watch pictures with natural color tones and high picture clarity. This mode is suitable for watching movies or TV.
Fine	Best for watching movies in darkened rooms.
Effective	Best for watching TV in bright environments.
Conventional	Displays a screen approximating that of a conventional TV screen.
Still	Suitable for watching static images such as computer or still camera images.

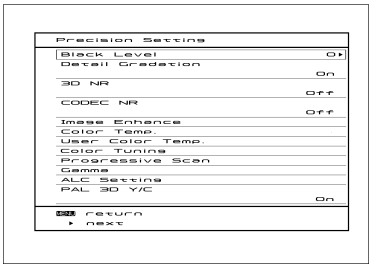
Press ENTER/OK to store.

Note

- If the operation is not executed for about 60 seconds, the menu disappears.
- Some functions are not available depending on the state or condition of use.
- The adjustment range varies according to the display signals. Make adjustments to your preferred picture quality within the adjustment range.
- Depending on the type of signal, it may not be possible to make some of the settings or adjustments.

Precision Setting

Even more advanced picture quality adjustments can be made as required.



Precision Setting Selection Screen

Black Level

Press ▶ to strengthen the reproduction of black. (Provides a picture quality with deep blacks.)

Press ◀ to weaken the reproduction of black.

Press ENTER to store.

Detail Gradation

Corrects the gradation of the light and dark areas of the picture.

Each time ◀ or ▶ is pressed, the setting is switched.

↔ On ↔ Off ↔

Press ENTER to store.

3D NR

This enables noise reduction processing with respect to the input signal noise level (reduces screen flicker for more comfortable viewing).

Each time you press ◀ or ▶, the available choices appear in the following sequence.

↔ Off ↔ Min. ↔ Mid. ↔ Max. ↔

Press ENTER to store.

CODEC NR

This enables noise reduction processing of mosquito noise or block noise generated when digital picture signals are recorded or replayed.

Each time you press ◀ or ▶, the available choices appear in the following sequence.

↔ Off ↔ Min. ↔ Mid. ↔ Max. ↔

Press ENTER to store.

Image Enhance

This performs detailed image quality settings.

- **Image Identify (RGB)**

  This function discerns between the natural image display section and the text display section, and performs correction to enable an optimized display for each.

  Each time ◀ or ▶ is pressed, the setting is switched.

  ↔ On ↔ Off ↔

  Press ENTER to store.

- **Chroma Transient**

  This function corrects the color contours.

  Each time ◀ or ▶ is pressed, the setting is switched.

  ↔ On ↔ Off ↔

  Press ENTER to store.

Color Temp.

Use ◀ or ▶ to specify a desired color temperature. Each time you press ◀ or ▶, one of the available choices appears in the following sequence:

↔ -3500K ↔ ... ↔ Std. ↔ ... ↔ +3500K ↔ User ↔

[–3500K]: More reddish colors

[+3500K]: More bluish colors

[User]: User Color Temp. setup

Press ENTER to store.

User Color Temp.

Use ▲ or ▼ to select Red, Green, or Blue, and adjust the color temp. for each.

Press ▶: to strengthen the selected color.

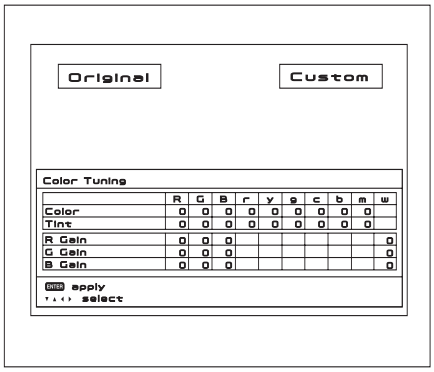
Press ◀: to weaken the selected color.

Press ENTER to store.

Color Tuning

This enables correction with respect to specific color hues within the image.

Independent correction of the hue of skin colors, blue skies, and so on, enables a more brilliant display.



Color Focus (Reddish color) Settings Screen

(1) Use ◀, ▶, ▲, or ▼ to select the item you want to adjust.

When ENTER is pressed, the value to be changed blinks.

(2) Use ◀ or ▶ to make the adjustment.

The adjustment contents can be checked at the screen displayed at the Custom side.

(3) When ENTER is pressed, the product exits from the input mode.

* When MENU is pressed without pressing ENTER, the product exits from the input mode without storing the data.

[R (Reddish color)]

Color, Tint, R Gain, G Gain, and B Gain correction is performed within the range from magenta to yellow, centered about red.

[G (Greenish color)]

Color, Tint, R Gain, G Gain, and B Gain correction is performed within the range from yellow to cyan, centered about green.

[B (Bluish color)]

Color, Tint, R Gain, G Gain, and B Gain correction is performed within the range from cyan to magenta, centered about blue.

[r (targeting red)]

Corrects the Color and Tint for red.

[y (targeting yellow)]

Corrects the Color and Tint for yellow.

[g (targeting green)]

CCorrects the Color and Tint for green.

[c (targeting cyan)]

Corrects the Color and Tint for cyan.

[b (targeting blue)]

Corrects the Color and Tint for blue.

[m (targeting magenta)]

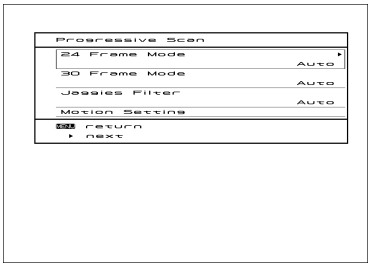
Corrects the Color and Tint for magenta.

[w (targeting white)]

Corrects the R Gain, G Gain, and B Gain for white.

Progressive Scan

This sets the conversion processing of interlace signals to block receive signals.



Progressive Scan Settings Screen

- **24 Frame Mode**

This function enables the optimized display of movies, etc. with 24 frames/second signals.

Each time ◀ or ▶ is pressed, the setting is switched.

↔ Auto ↔ Off ↔

Press ENTER to store.

- **30 Frame Mode**

This function enables the optimized display of movies, etc. with 30 frames/second signals.

Each time ◀ or ▶ is pressed, the setting is switched.

↔ Auto ↔ Off ↔

Press ENTER to store.

Note

- If the operation is not executed for about 60 seconds, the menu disappears.
- Some functions are not available depending on the state or condition of use.
- The adjustment range varies according to the display signals. Make adjustments to your preferred picture quality within the adjustment range.
- Depending on the type of signal, it may not be possible to make some of the settings or adjustments.

- **Jaggies Filter**

  This function alleviates the phenomenon where jagged diagonal lines can be seen when interlace signals are input, thus enabling a smoother motion picture display.

  Each time ◄ or ► is pressed, the setting is switched.

  ↔ Auto ↔ Off ↔

  Press ENTER to store.

- **Motion Setting**

  The detecting sensitivity for motion picture is set.

  The response of the picture processing is valued in the motion picture priority setting.

  Press ►: to specify still picture priority.

  Press ◄: to specify motion picture priority.

  Press ENTER to store.

Gamma

You can create your favourite image by fine tuning the brightness.

- **High Point**

  In a bright image scene, sets the point where the brightness is to be adjusted.

  Press ◄ or ► to set the point where the brightness is to be adjusted.

  Press ENTER to store.

- **High Point Gain**

  Fine tunes the brightness of the point set by High Point.

  Press ◄ to be darker.

  Press ► to be brighter.

  Press ENTER to store.

- **Low Point**

  In a dark image scene, sets the point where the brightness is to be adjusted.

  Press ◄ or ► to set the point where the brightness is to be adjusted.

  Press ENTER to store.

- **Low Point Gain**

  Fine tunes the brightness of the point set by Low Point.

  Press ◄ to be darker.

  Press ► to be brighter.

  Press ENTER to store.

ALC Setting

- This function allows setting of the screen to your favourite luminance matched to the ambient brightness.
- The ALC Setting function operates when the ambient sensor is turned on. (See “Ambient Sensor” on P. E-27.)

- **High Point Level**

  Sets the upper limit value of the ambient brightness detected by the ambient sensor.

  Press ◄ to lower the upper limit value.

  Press ► to raise the upper limit value.

  Press ENTER to store.

- **High Point Gain**

  Sets the upper limit value of the screen luminance corresponding to the brightness detected by the ambient sensor in a bright environment.

  Press ◄ to lower the upper limit value.

  Press ► to raise the upper limit value.

  Press ENTER to store.

- **High Point Limit**

  Limits control of the screen luminance corresponding to the ambient sensor when the value detected by the ambient sensor exceeds the High Point Level and High Point Gain.

  Each time ◄ or ► is pressed, the setting is switched.

  [On]: Limit operates

  [Off]: Limit does not operate

  Press ENTER to store.

- **Low Point Level**

  Sets the lower limit value of the ambient brightness detected by the ambient sensor.

  Press ◄ to lower the lower limit value.

  Press ► to raise the lower limit value.

  Press ENTER to store.

- **Low Point Gain**

  Sets the lower limit value of the screen luminance corresponding to the brightness detected by the ambient sensor in a dark environment.

  Press ◄ to lower the lower limit value.

  Press ► to raise the lower limit value.

  Press ENTER to store.

- **Low Point Limit**

  Limits control of the screen luminance corresponding to the ambient sensor when the value detected by the ambient sensor is lower than the Low Point Level and Low Point Gain.

  Each time ◄ or ► is pressed, the setting is switched.

  [On]: Limit operates

  [Off]: Limit does not operate

  Press ENTER to store.

Note

- There are the following conditions at the settable value:

  High Point Level > Low Point Level

  High Point Gain > Low Point Gain

PAL 3D Y/C

Improves color smearing, blurring, and dot noise when watching PAL signal TV and Video. Set to OFF when the image is unnatural.

↔ On ↔ Off ↔

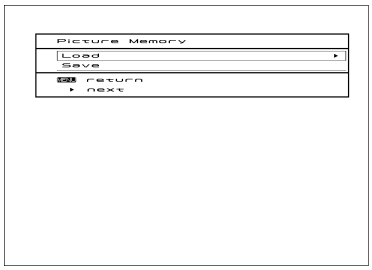
[On]: Enable 3D Y/C separation

[Off]: Disable 3D Y/C separation

Press ENTER to store.

Picture Memory

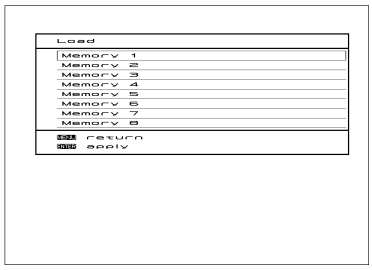
Eight groups of picture adjustment settings can be stored, enabling you to quickly switch to your desired group of settings for watching program.



Picture Memory Selection Screen

[Load]:

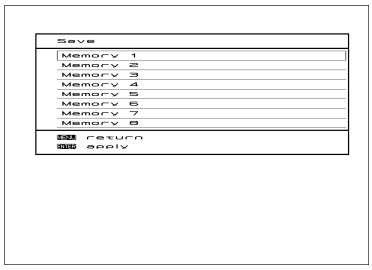
Use ▲ or ▼ to select Memory 1 - 8. When ENTER is pressed, the values becomes the picture adjustment values stored in the selected Memory.



"Load" Selection Screen

[Save]:

Use ▲ or ▼ to select Memory 1 - 8. If ENTER is pressed, the current picture adjustment values are stored to the selected Memory.



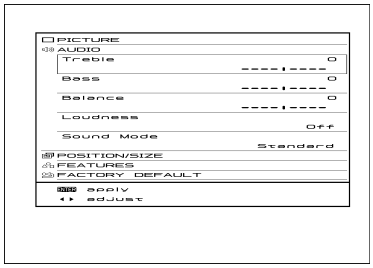
"Save" Selection Screen

Note

- If the operation is not executed for about 60 seconds, the menu disappears.
- Some functions are not available depending on the state or condition of use.
- The adjustment range varies according to the display signals. Make adjustments to your preferred picture quality within the adjustment range.
- Depending on the type of signal, it may not be possible to make some of the settings or adjustments.

ADJUSTING TO DESIRED AUDIO (AUDIO MENU)

- You can make changes to all audio adjustment options in the AUDIO Menu. See P. E-26 for the basic procedures.
- The changes you make will be stored for the selected input mode. Therefore, you need to select a desired input mode before making any changes.



AUDIO Menu screen

Treble

Press ◄ or ► to make adjustments.

►: Stronger treble

◄: Weaker treble

Press ENTER to store.

Bass

Press ◄ or ► to make adjustments.

►: Stronger bass

◄: Weaker bass

Press ENTER to store.

Balance

Press ◄ or ► to make adjustments.

►: Shifts the volume balance towards the right.

◄: Shifts the volume balance towards the left.

Press ENTER to store.

Loudness

Corrects the balance between bass and treble for easy listening even with weak volume.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

↔ Off ↔ Min. ↔ Mid. ↔ Max. ↔

Press ENTER to store.

Sound Mode

Sets the sound field.

Each time ◄ or ► is pressed, the setting is switched.

↔ Flat ↔ Standard ↔ Voice ↔ Surround ↔

[Flat]: Reproduces the sound input signal naturally. Mild sound reproduction is realized.

[Standard]: Listening-fatigue-free, placid sound reproduction is realized by suitable equalizing (sound quality adjustment).

[Voice]: Increases the sound clarity. Announcements, dialogue, etc. become easy to hear.

[Surround]: Sound image is spread left, right, up, and down. Sound with the realistic sensation of a movie, etc. is enjoyed.

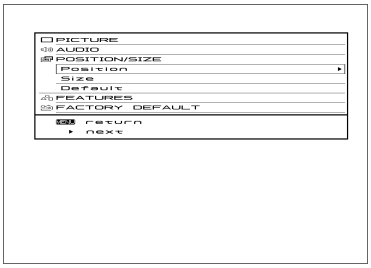
Press ENTER to store.

Note

- An audio signal from an audio output terminal (AUDIO OUTPUT DIGITAL or AUDIO OUTPUT ANALOG) does not change.
- AUDIO menu will not be displayed when “No Audio” is selected. (See P. E-36.)

ADJUSTING SCREEN POSITION AND SIZE (POSITION/SIZE MENU)

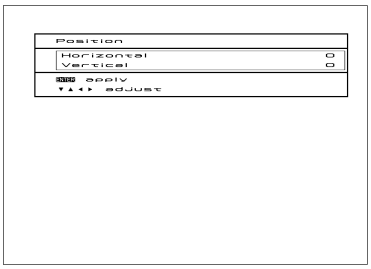
- You can make changes to all screen adjustment options in the POSITION/SIZE Menu.
- See P. E-26 for the basic procedures.



POSITION/SIZE Menu screen

- The changes you make will be stored for the selected input mode. Therefore, you need to select a desired input mode before making any changes.

Screen Position

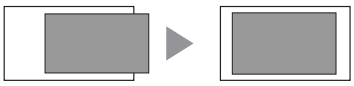


"Position" adjustment screen

Horizontal position (Horizontal)

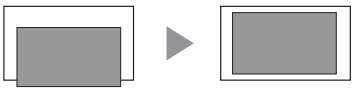
: Moves the screen picture to the right.

: Moves the screen picture to the left.



Vertical position (Vertical)

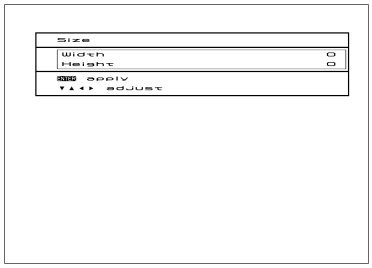
: Moves the screen picture up.



: Moves the screen picture down.

Press ENTER/OK to store.

Screen Size

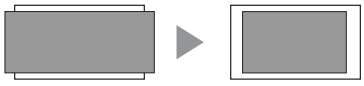


"Size" adjustment screen

Screen width (Width)

: Increases the width.

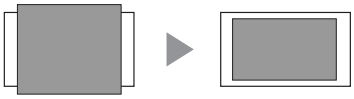
: Reduces the width.



Screen height (Height)

: Increases the height.

: Reduces the height.



Press ENTER/OK to store.

Note

- If the operation is not executed for about 60 seconds, the menu disappears.
- Some functions are not available depending on the state or condition of use.
- The adjustment range varies according to the display signals. Make adjustments to your preferred picture quality within the adjustment range.
- Depending on the type of signal, it may not be possible to make some of the settings or adjustments.

OTHER SETTINGS (FEATURES MENU)

FEATURES setup screen has the following 4 options.

See Page E-26 for the basic procedures.

[Adjustment]: Can make a fine adjustment of pictures such as Dot Clock, Clamp Position.

[On Screen Menu]: Can make a display setting such as OSD, Language.

[Input Terminal]: Can make an input terminal setting such as Video Input. (See P. E-35.)

[Others]: Used to make Screen Orbiter and other settings. (See P. E-36–E-37.)

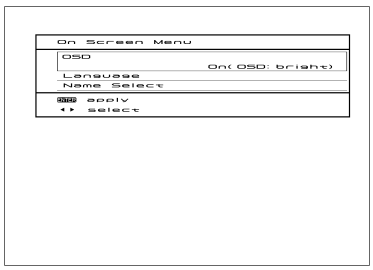
Adjustment

Dot Clock, Clock Phase, Clamp Position, and Auto Calibration are adjusted as shown in the following chart.

Select the item with ◁▷ or ▽△, and then adjust with ◁ or ▷. Finally, press ENTER to implement the adjustments.

Adjustment Item	Contents of Adjustments	Operation
Dot Clock (RGB)	You may find the vertically-striped pattern in pictures, depending on the clock frequency of your PC's processor. If you experience blurring, you can obtain a clearer picture by adjusting the "Dot Clock".	Use ◁ or ▷ to adjust to minimize vertically-striped pattern in pictures.
Clock Phase (RGB)	Pictures and the outline of letters may blur or flicker as the clock phase of your PC may be different. In this case, adjust the clock phase manually. Normally, the "Auto" setting ensures the optimal value.	When "Manual" is selected, use ◁ or ▷ to adjust to minimize pictures blur.
Clamp Position (RGB, Comp. video)	Adjusts the extremely dark or bright pictures. Normally, the automatic setting ensures the optimal value.	Use ◁ or ▷ to adjust pictures optimally.
Auto Calibration (RGB)	Adjusts the dynamic range of images to the optimum. Performed while a white screen signal is received.	Display the Auto Calibration screen. Select "Execute" and press "ENTER". Press ▽△ or ▽△ to select "Yes", and press "ENTER".

On Screen Menu



"On Screen Menu" screen

OSD

You can use this option to select from following display indication.

Each time you press ◁ or ▷, one of the available choices appears in the following sequence:

↔ On (OSD:bright) ↔ On (OSD:dark) ↔

[On (OSD:bright)]: On-screen information shown in light color.

[On (OSD:dark)]: On-screen information shown in dark color.

Press ENTER to store.

* If the screen picture is too bright, some characters may be difficult to watch when [On (OSD:dark)] is selected.

* This function is not available depending on your watching video or TV channel.

Language

You can use this option to select the language displayed on the screen.

Press ◁▷ or ▽△ to select your desired language.

English
Deutsch (German)
Español (Spanish)
Français (French)
Italiano (Italian)

Press ENTER.

The menu is displayed in the selected language.

Name Select

You can change the settings for indications for RGB inputs and video inputs.

RGB input

You can change the settings for indications for the RGB inputs. Select the desired indication in accordance with the connected equipment.
Each time ◄ or ► is pressed, the setting is switched. (In the case of RGB 1)

↔ RGB1 ↔ PC1 ↔ PC2 ↔ DVD1 ↔ DVD2 ↔ STB ↔ Satellite ↔ Cable TV ↔

Press ENTER to store.

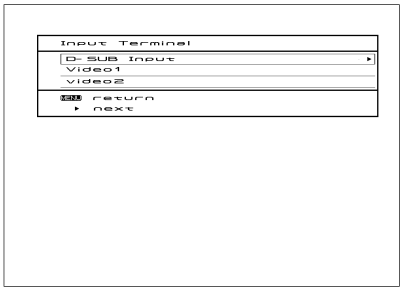
Video input

You can change the settings for indications for the VIDEO inputs.
Select the desired indication in accordance with the connected equipment.
Each time ◄ or ► is pressed, the setting is switched. (In the case of VIDEO1)

↔ Video1 ↔ DVD1 ↔ DVD2 ↔ VCR1 ↔ VCR2 ↔ GAME ↔ Camcorder ↔ STB ↔ Satellite ↔ Cable TV ↔

Press ENTER to store.

Input Terminal



"Input Terminal" screen

D-SUB Input terminal

You can use this option to select the signal system it will receive to D-SUB Input terminal.

(1) Select D-SUB Input and press ENTER.

D-SUB Input screen appears.

(2) Select the signal system to receive.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

↔ RGB-PC ↔ Decoder ↔

[RGB-PC]: For using RGB for PC

[Decoder]: For using digital broadcast tuner

(3) Press ENTER to store.

Video1 or Video2 Input terminal

Function

Select the video input format.

Each time ◄ or ► is pressed, the setting is switched.

↔ Video ↔ S-video ↔ RGB ↔

Press ENTER to store.

Video Format

You can use this option to select the video format appropriate for the input signal.

Each time you press ◄ or ►, one of the available modes appears in the following sequence:

↔ Auto ↔ NTSC ↔ PAL ↔ SECAM ↔ PAL60 ↔ N-PAL ↔ M-PAL ↔ 4.43NTSC ↔

[Auto]: Automatically selects NTSC, PAL, SECAM, PAL60, N-PAL, M-PAL, and 4.43NTSC.

[Other than Auto]: You need to select a system appropriate to the input signal.

Press ENTER to store.

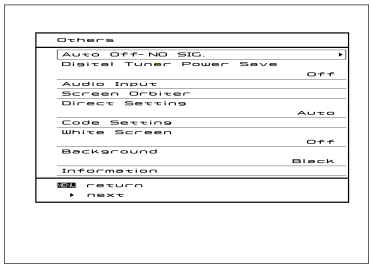
Note

- If the operation is not executed for about 60 seconds, the menu disappears.
- Some functions are not available depending on the state or condition of use.
- The adjustment range varies according to the display signals. Make adjustments to your preferred picture quality within the adjustment range.
- Depending on the type of signal, it may not be possible to make some of the settings or adjustments.

Others

Auto Off-NO SIG.

(1) You can make to the standby state automatically when the no signal state continued during set up time.



"Auto Off-NO SIG." selection screen

Press ▲ or ▼ to select the "Time".

Press ◄ or ► to select the amount of time before the standby state starts.

↔ Off ↔ 1 min. ↔ 15 min. ↔ 45 min. ↔ 60 min. ↔

Press ENTER to store.

* The numerical value is the approximate amount of time before the standby state starts.

(2) You can assign the black or white color for the background color at the no signal state.

Press ▲ or ▼ to select the "Background".

Press ◄ or ► to select the displayed background displayed.

↔ Black ↔ White ↔

Press ENTER to store.

* The background color changes to assigned color state after approximate 20 seconds at the no signal state.

Digital Tuner Power Save

Saves Digital Tuner power consumption when watching analog TV, video input, and RGB input other than digital terrestrial TV (DTV).

Normally, when digital terrestrial TV (DTV) is watched very little and analog TV and cable TV and DVD player are watched by video input very much, setting to ON is recommended.

Each time you press ◄ or ►, the setting is switched.

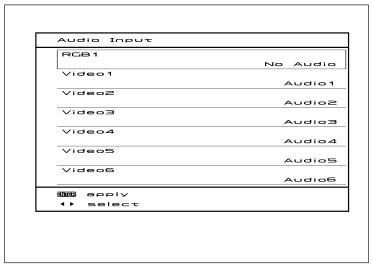
↔ Off ↔ On ↔

[Off]: Power consumption not saved.

[On]: Power consumption saved.

* When set to On, it may take some time to switch to digital terrestrial TV.

Audio Input



"Audio Input" settings screen

You can use this option to select the available terminals to receive the audio from input equipment.

(1) Press ▲ or ▼ to select video input terminal.

(2) Select a related audio input terminal.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

↔ No Audio ↔ Audio1 ↔ Audio2 ↔ • • • • • ↔

[No Audio]: No audio in the corresponding mode.
[Audio 1-2]: SCART

[Audio 3-4]: Selects Audio 3 through 4 for receiving audio in the corresponding mode.

[Audio 5-6]: HDMI

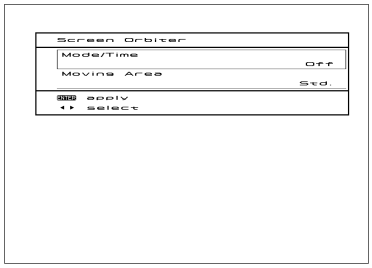
* There is also "Audio Input" that cannot be selected.

* Repeat steps (1) and (2) for each piece of input equipment.

(3) Press ENTER to store.

* AUDIO menu will not be displayed when "No Audio" is selected.

Screen Orbiter (RGB)



"Screen Orbiter" setting screen

You can use this option to move the screen position to minimize phosphor-induced "burn-in".

Follow the steps below.

Mode/Time

(1) Select "Screen Orbiter" and press ENTER.

The "Screen Orbiter" setting screen will appear.

(2) Press ▲ or ▼ to select "Mode/Time".

(3) Select a desired pattern.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

↔ Off ↔ Time ↔ Mode ↔

[Off]: Disables Screen Orbiter.

[Time]: Moves the pattern approximately every one hour.

[Mode]: Moves the pattern when the power is turned ON or when you switch between modes.

Moving Area

(4) Press ▲ or ▼ to select "Moving Area".

(5) Press ◄ or ► to select the range for moving the pattern.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

↔ Min. ↔ Std. ↔ Max. ↔

[Min.]: Pattern moves in small range. (About 5 pixels)

[Std.]: Pattern moves in moderate range. (About 10 pixels)

[Max.]: Pattern moves in wide range. (About 15 pixels)

(6) Press ENTER to store.

* When the Screen Orbiter function is operated, some screen contents at the top, bottom, right or left of the screen may move offscreen.

Direct Setting (RGB)

You can use this option to switch the setting for RGB input signal.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

↔ Auto ↔ VGA ↔ WVGA ↔ 480P ↔ XGA ↔ WXGA ↔ SXGA ↔ SXGA+ ↔

[Auto]: The optimum display is obtained automatically for input signals.

[Others]: The optimum resolution setting is fixed for each signal.

Press ENTER to store.

* In Auto mode, the resolution of VGA, WVGA, 480P, XGA, WXGA, SXGA and SXGA+ may not be automatically distinguished. Switch to the fixed display when the image is not displayed properly.
* Signals that are not applicable depending on the model or input terminals may not be displayed.

Code Setting (RGB)

Normally, use this option in Auto mode.

White Screen

You can use this option to display white over the entire screen to minimize phosphor burn-in.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

↔ Off ↔ On ↔

Press ENTER to store.

Background

When the screen size was set to "Normal", to reduce "burn-in", the brightness of the part at which left and right images are not displayed can be set. Normally, we recommend that "Light Gray" be used.

Each time you press ◄ or ►, the settings is switched.

↔ Black ↔ Dark Gray ↔ Light Gray ↔

Press ENTER to store.

* Effective for plasma display.
* Burn-in can still occur if the Normal mode is shown for extended periods.

Information

Displays system operation status.

Select "Information" and press ENTER.

The "Information" screen will appear.

[Mode]: Input mode appears at the upper right corner of the screen

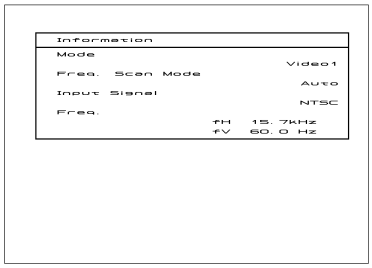
[Freq. Scan Mode]: Frequency scanning

[Input Signal]: Video mode

[Input Sync.]: Signal type

[Freq.]: Synchronized signal frequency, polarity

[Preset No.]: RGB code number



"Information" screen (example of Video1 mode)

Note

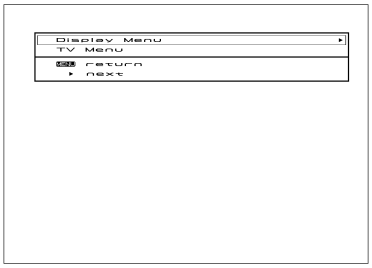
- If the operation is not executed for about 60 seconds, the menu disappears.
- Some functions are not available depending on the state or condition of use.
- The adjustment range varies according to the display signals. Make adjustments to your preferred picture quality within the adjustment range.
- Depending on the type of signal, it may not be possible to make some of the settings or adjustments.

INITIALIZATION OF USER ADJUSTMENT VALUE

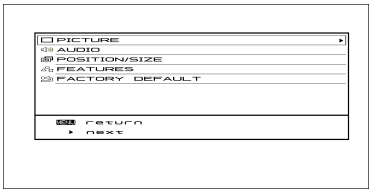
You can restore the values of the adjustment/setting made in the MENU to factory settings.

1 **Press MENU .**

The main menu screen will appear.



2 **Press ▲ or ▼ to select “Display Menu” and press ▶ or ENTER.**



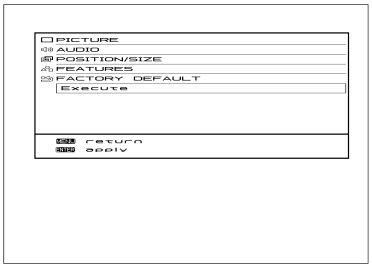
“Display Menu” selected in the main menu screen

3 **Press ▲ or ▼ to select “FACTORY DEFAULT” and press ▶ or ENTER.**

Each time you press ▲ or ▼, one of the available menus appears in the following sequence:

PICTURE ↔ AUDIO ↔ POSITION/SIZE ↔ FEATURES ↔ FACTORY DEFAULT

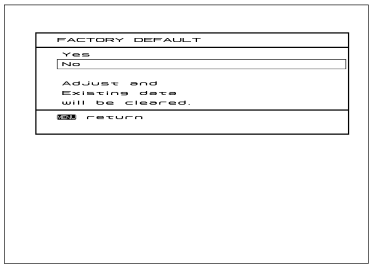
The “FACTORY DEFAULT” menu screen will appear.



“FACTORY DEFAULT” selected in the main menu screen

4 **Press ENTER.**

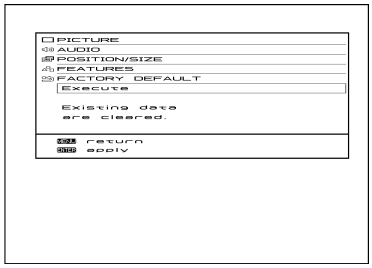
- Displays the message of whether to proceed with the initialization.



Displays the message of whether to proceed the initialization

5 **Press ▲ or ▼ to select the “Yes”.**

6 **Press ENTER.**



Displays the message of having completed the initialization

- The message of having completed the initialization will be displayed after initializing.

7 **Press MENU or EXIT when you finish.**

Note

- If the operation is not executed for about 60 seconds, the menu disappears.
- Some functions are not available depending on the state or condition of use.
- The adjustment range varies depending on the display signal. Adjust to a desired picture quality in the allowable adjustment range.
- Setting and adjustment may be disabled depending on the signal type.
- If a new setting is made for Tuner (digital terrestrial TV), it cannot be changed back to the factory default again.

ANALOG TV MODE SETTING (TV MENU)

- The setting shown below is the setting for analog TV broadcasts. First, press TV/DTV and select the analog TV mode. (See P. E-22.)

1 **Press MENU .**

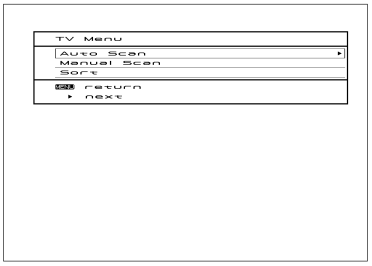
The "TV Menu" will appear.

2 **Press ▲ or ▼ to select "TV Menu" and press ▶ or ENTER.**

3 **Press ▲ or ▼ to select the items for setting. It is switched as shown as below.**

Auto Scan ↔ Manual Scan ↔ Sort

Press ENTER to proceed to the next step.



"TV Menu" screen

Auto Scan

Press ◀ or ▶ to select the country or region, and then press ENTER.

All the channels are scanned, and only the channels that can be received are assigned to the Program Nos.

* Several minutes are required to scan all the channels. To cancel the operation in progress, press MENU .

Manual Scan

Press ◀ or ▶ to select the Program No. to be stored.

Press ▲ or ▼ to select the Manual Store items to be set (Setting or Name).

Press ENTER to proceed.

Setting

Press ▲ or ▼ to select the setting item.

Freq. ↔ System ↔ Adjust ↔ Skip

- **Freq.**

Each time ◀ or ▶ is pressed, the TV frequency is switched.

- **System**

Each time ◀ or ▶ is pressed, the TV SYSTEM is switched.

↔ West Euro (standard BG reception) ↔ East Euro (standard DK reception) ↔ UK (standard I reception) ↔ France (standard LL' reception) ↔

- **Adjust**

Each time ◀ or ▶ is pressed, the fine-tune adjustment for Tuning is switched.

- **Skip**

This function specifies whether or not to use the Skip function for the displayed Program No.

Each time ◀ or ▶ is pressed, the setting is switched.

↔ Off ↔ On ↔

[Off]: The Skip function is not available when Channel Up/Down has been selected.

[On]: The Skip function is available when Channel Up/Down has been selected.

Press ENTER to store.

* Select "On" when you want to skip the channels that they are not broadcasting programs.

Name

An eight-character name can be specified for each Program No.

Press ◀ or ▶ to select the character input position, and ▲ or ▼ to switch through the characters.

When the input is completed, press ENTER to store.

* When switching the programs, etc., the OSD becomes the indication by the stored name.

Sort

This function sorts the name, the data and the contents of stored programs.

Press ▲ or ▼ to select To (edit destination)/From (edit source), and ◀ or ▶ to switch the Program No.

Press ENTER to store.

DIGITAL TV MODE SETTING (TV MENU)

The setting shown below is the setting for terrestrial DTV broadcasts. First, press TV/DTV and select the terrestrial TV mode. (See P. E-20.)

1 **Press MENU .**

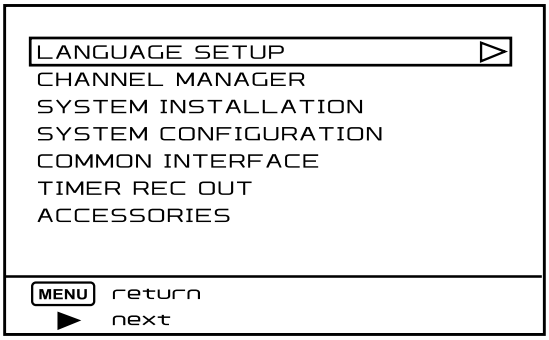
The "TV Menu" will appear.

2 **Press ▲ or ▼ to select "TV Menu" and press ▶ or ENTER.**

3 **Press ▲ or ▼ to select the items for setting. It is switched as shown as below.**

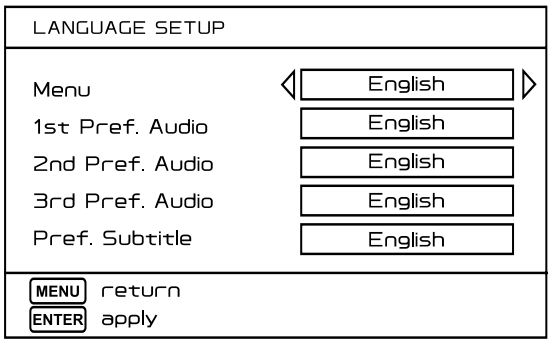
LANGUAGE SETUP ↔ CHANNEL MANAGER ↔ SYSTEM INSTALLATION ↔ SYSTEM CONFIGURATION ↔ COMMON INTERFACE ↔ TIMER REC OUT ↔ ACCESSORIES

Press ENTER to proceed to the next step.



"TV Menu" screen

LANGUAGE SETUP



"LANGUAGE SETUP" screen

The MENU displayed language and audio output can be set up.

Use ▲ or ▼ to select the following items:

- **Menu**

  Sets the display language.

- **1st Pref. Audio**

  Sets the 1st preferred audio.

- **2nd Pref. Audio**

  Sets the 2nd preferred audio.

- **3rd Pref. Audio**

  Sets the 3rd preferred audio.

- **Pref. Subtitle**

  1st preferred language which displays Subtitle can be set.

Each time ◀ or ▶ is pressed, the language is switched as follows:

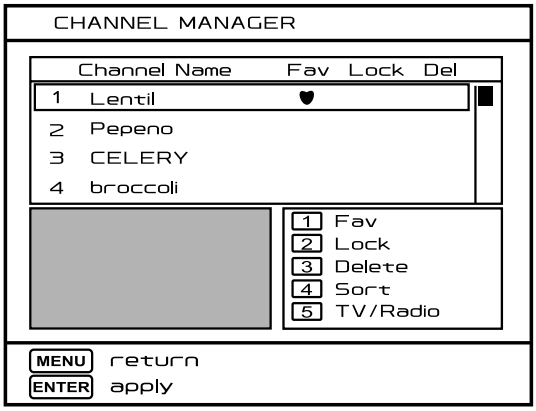
↔ English ↔ Français ↔ Deutsch ↔ Italiano ↔ Español ↔

Select the language and press ENTER to store.

Note

- If the operation is not executed for about 60 seconds, the menu disappears.
- Some functions are not available depending on the state or condition of use.
- The adjustment range varies according to the display signals. Make adjustments to your preferred picture quality within the adjustment range.
- Depending on the type of signal, it may not be possible to make some of the settings or adjustments.

CHANNEL MANAGER



"CHANNEL MANAGER" selection screen

Fav, Lock, Delete

▲ or ▼ to select the channel and press 1 (Fav), 2 (Lock), 3 (Delete) on the remote control.

The password input screen is displayed.

When this screen is displayed, input the password. (Operation is different depending on the Password mode setting.)

* The factory set password is "0000".

Press ENTER to store.

1: Fav (Favourite)

Your favourite channels can be registered.

When registered, it can be easily changed into your favourite channel by using FAV.LIST .

2: Lock (Channel Lock)

Channel Lock can be set.

When a channel with "Channel Lock" set was selected, it cannot be watched if a password is not entered.

3: Delete

Clears the channels acquired by Auto Scan so they cannot be watched.

* Once deleted, a channel cannot be recovered without performing the Auto Scan or Carrier Setup Rescan operation.

* When Auto Scan is performed, the registered information such as Fav or Lock may be lost.

Sort

Switch the order of the displayed channels.

The order of the channels can be changed as follows:

- Use ▲ or ▼ to select the channels.
- Press 4 (Sort).
- Use ▲ or ▼ to move to the position you want to insert selected Channel Name.
- Press ENTER to store.

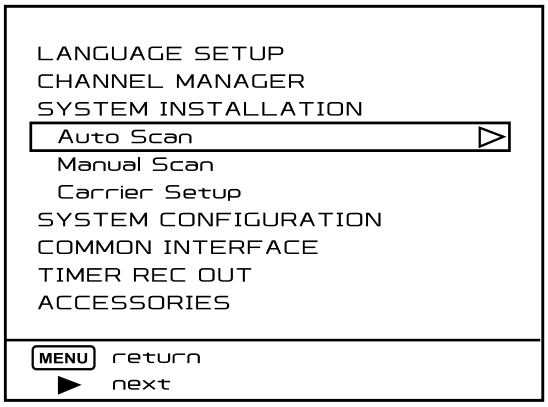
* The Sort menu may not be displayed depending on the broadcast station.

TV / Radio

Switch the TV and Radio list display.

5 When (TV/Radio) is pressed, TV channel list and Radio channel list are switched.

SYSTEM INSTALLATION



"SYSTEM INSTALLATION" selection screen

* Each time the Auto Scan, Manual Scan and Carrier Setup setting screen is entered, the Password input screen is displayed. After this screen is displayed, enter the password. (Operation is different depending on the Password mode setting.) (See P. E-42.)

* The factory set password is "0000".

Auto Scan

Automatically sets the receiving channel.

Press ◀ or ▶ to select the country name.

↔ United Kingdom ↔ France ↔ Germany ↔ Italy ↔ Spain ↔

Press ENTER to start Auto Scan.

Manual Scan

The Channel and Frequency can each be set, and a specific Channel and Frequency can be scanned.

* The Signal Quality of each can be checked.

Carrier Setup

Delete and Rescan can be performed for each Carrier.

RED (Delete): Deletes the Carrier from the list.

GREEN (Rescan): Automatically reacquires Carrier.

NOTE -Lock (Channel Lock)

- When an operation other than the specified operation is performed while the Password input screen was displayed, the screen may become blank or "Locked Service" screen may be displayed. In this case, press P▲ or P▼ and reset to the channel you want to watch.

SYSTEM CONFIGURATION

Time Setup

- **Time Mode**

  It is switched each time ◄ or ► is pressed.

  Auto ↔ Manual

  Normally use at Auto.

- **UTC Offset**

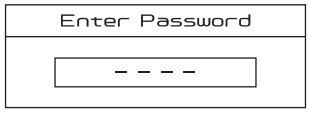
  UTC Offset becomes effective when "Manual" was selected by Time Mode. This function is used when the received TV broadcast setup time is in the UTC mode.

  Press ◄ or ► to adjust the offset.

  The offset can be adjusted over the +12:00 to -12:00 range.

Password Setup

Displays the password input screen.



"Enter Password" input screen

Enter the registered password.

* The factory set password is "0000".

- **Password Mode**

  This mode sets whether or not the password input screen is to be displayed when the password input is requested.

  It is switched each time ◄ or ► is pressed.

  ↔ Always ↔ None ↔ Once ↔

  [Always]: Password input screen is always displayed.

  [None]: Password input screen is not displayed.

  [Once]: Password input screen is displayed once only. (When once set to standby, the password input screen is displayed again.)

- **Parental Lock**

  Viewing restrictions by age can be set for programs to be viewed. When a program with a viewing restriction was received, the programs of the set age or younger cannot be viewed.

  It is switched each time ◄ or ► is pressed.

  ↔ None ↔ 4 ↔ 5 ↔ 6 ↔ • • • • • ↔ 18 ↔

  * The "Parental Lock" menu may not be displayed depending on the broadcast station.

- **Password change**

  The password can be changed by entering the passwords in Old Password, New Password, Confirm Password order.

  Make a note so as not to forget the modified password.

COMMON INTERFACE

Displays the information on the Smart Card when a Smart Card is inserted. The contents and operation procedure vary depending on the card company.

- **Module information**

  The module information can be checked.

- **Smart Card information**

  The information can be checked.

- **Language**

  The language in which the Smart Card information is displayed can be selected.

  * The language which can be selected varies depending on the card company.

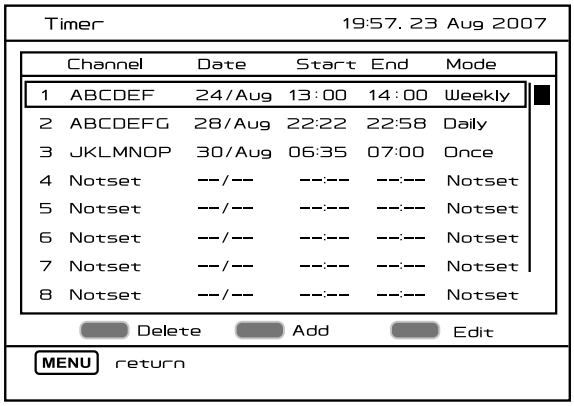
- **Software Download**

  When there is new software, it can be downloaded.

NOTE -Parental Lock

- When an operation other than the specified operation is performed while the Password input screen was displayed, the screen may become blank or "Locked Service" screen may be displayed. In this case, press [P ^] or [P v] and reset to the channel you want to watch.

TIMER REC OUT



"Timer" selection screen

Digital terrestrial TV images and sounds can be output to an external connected device at the set time.

Digital terrestrial TV signals are converted to analog signals and output (SCART: Video). (See P. E-8, E-16.)

For new setting

RED : "Delete" clears the set programs.

GREEN : Press "Add" and set the channel, date and time, start and end times, and output mode.

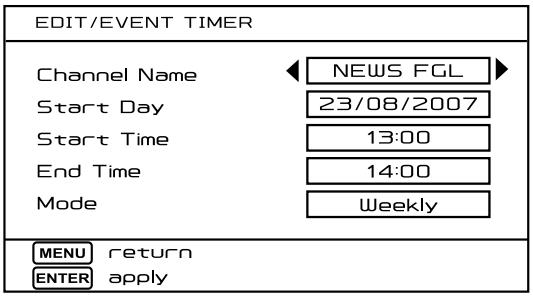
BLUE : "Edit" changes the contents of the set programs.

* To stop a started TIMER REC OUT, press the P ^ or P v button. Since a screen stop confirmation screen is displayed, perform operation in accordance with the instructions on that screen.

* When a channel with Channel Lock or Parental Lock set was reserved, since the Password screen is displayed at the reserved time, a TV picture is not output. (Password screen is displayed.) When you want to record, release Channel Lock or Parental Lock beforehand. (See P. E-41, E-42.)

* Since recording start processing may take some time, when reserving recording, provide an ample margin at the time.

• Add/Edit operation procedure



"EDIT/EVENT TIMER" Add screen

• Channel (Channel Name): After pressing ◄ or ►, select the channel using ▲ or ▼ and set by pressing ENTER.
• Date (Start Day): Set using the numeric keypad.
• Start (Start Time): Set using the numeric keypad.
• End (End Time): Set using the numeric keypad.
• Mode: Select using ◄ or ►.

Once: Activate once only
Daily: Activate each day
Weekly: Activate each week

Press ENTER to store.

ACCESSORIES

• Version

Displays the software Version.

• Software Upgrade

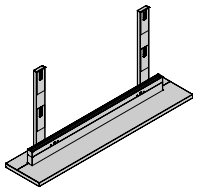
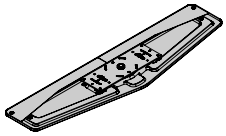
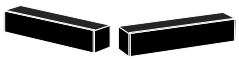
Performs software update.

Normally not used.

Note

- If the operation is not executed for about 60 seconds, the menu disappears.
- Some functions are not available depending on the state or condition of use.
- The adjustment range varies according to the display signals. Make adjustments to your preferred picture quality within the adjustment range.
- Depending on the type of signal, it may not be possible to make some of the settings or adjustments.

OPTIONS

Desktop Stand unit	P-TT6500 (for 65” model)	
Swivel	P-TT3700 (for 37” model)	
Speaker (1 set of 2 speakers)	P-SP2000 (for attaching to the display, for 65” model) * The speakers can be also used mounting on the optional “Desktop Stand unit (P-TT6500 type)”.	

* When installing an option, make sure that all installation requirements for that option (as given in the relevant instruction manual) are met.
* The colors of options do not match the display colors perfectly.
* To improve the function and performance of optional accessories, specifications and part names may change. Consult your local dealer before purchasing.

Warning

To prevent injury, fire, and electric shock, arrange for options to be initially installed (or installed at a different location) by your dealer.

CAUTION

This display (P37FT05AEB) is for use only with Fujitsu General Limited’s option (P-TT3700).
This display (P65FT00AEB) is for use only with Fujitsu General Limited’s option (P-TT6500).
Using this display with other option can cause instability resulting in possible injury.

MAIN SUPPORTED SIGNALS

The display can store up to four types of signals for RGB adjustment values. The display uses the first-in, first-out method; therefore, the first input signal is cleared when the fifth one is input.

Input the signal you want to store and adjust to a desired screen according to "ADJUSTING SCREEN POSITION AND SIZE".

When the adjustment has been made, it is automatically stored. Thus, when the display receives the same signal later, pictures will be displayed in accordance with the adjustment value most recently stored.

Main corresponding signals (RGB mode)

Display (dots x lines)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal
640 x 480	31.47	59.94	VGA
640 x 480	37.50	75.00	VGA 75 Hz
640 x 480	43.27	85.01	VGA 85 Hz
720 x 400	31.47	70.09	400 lines
800 x 600	37.88	60.32	SVGA 60 Hz
800 x 600	46.88	75.00	SVGA 75 Hz
800 x 600	53.67	85.06	SVGA 85 Hz
1024 x 768	48.36	60.00	XGA 60 Hz
1024 x 768	60.02	75.03	XGA 75 Hz
1024 x 768	68.68	84.99	XGA 85 Hz
1280 x 1024	63.98	60.02	SXGA 60 Hz
1280 x 1024	79.98	75.03	SXGA 75 Hz
848 x 480	31.02	60.00	
852 x 480	31.72	59.97	
1360 x 768	47.71	60.01	
720 x 485	15.73	59.94	60 fields
720 x 575	15.63	50.00	50 fields

- With some input signals, "Out of range" may appear or the image may appear in black and white when the horizontal and vertical frequencies are outside their permissible ranges, or even when the frequencies are within their permissible ranges. In this case, match the input signal to a different frequency in the above table.

In the Comp.video, HDMI, and Video/S-video modes, the display has been factory-set as follows for different input signals:

Main corresponding signals (Comp.Video, HDMI mode)

Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal	Comp. Video	HDMI
15.73	59.94	SDTV 480i	○	○
15.63	50.00	SDTV 576i	○	○
31.47	59.94	SDTV 480p	○	○
31.25	50.00	SDTV 576p	○	○
45.00	60.00	HDTV 720p	○	○
37.50	50.00	HDTV 720p	○	○
33.75	60.00	HDTV 1080i	○	○
28.13	50.00	HDTV 1080i	○	○
67.50	60.00	HDTV 1080P	—	○
56.25	50.00	HDTV 1080P	—	○

Main corresponding signals (Video, S-video mode)

Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal	Video	S-video
15.73	59.94	NTSC	○	○
15.63	50.00	PAL	○	○
15.63	50.00	SECAM	○	○
15.63	59.52	PAL60	○	○
15.63	50.00	N-PAL	○	○
15.73	59.95	M-PAL	○	○
15.73	59.94	4.43NTSC	○	○

RF INPUT: Analog TV PAL / SECAM
Digital TV DVB

Note

- Depending on the input signal, the display may show pictures of reduced size due to size reduction and interpolation.
- You can check input signals through "Information" on the features menu screen. (See P. E-37.)
- In order to facilitate the explanations, pictures and diagrams in this manual may differ slightly from the actual items.
- All terms (i.e., company and product names) used in this document are trademarks or registered trademarks.

CLEANING

Precautions

Be sure to remove the power plug from the receptacle before cleaning the display.

Be sure not to clean the display using a cloth dampened with volatile solvents, such as benzene or thinner. Such solvents can harm the display's cabinet, the filter at the screen front, and the remote control. They can also cause paint to come off these sections.

Cleaning the Screen

Clean the screen gently with a soft cloth.

The screen surface is fragile. Never attempt to clean it with a hard material, press on it forcefully, or tap it.

Cleaning the Cabinet

Wipe off the dust on the surface of the cabinet gently with a clean dry soft cloth such as gauze or flannel.

Do not apply too much pressure to the cloth when wiping off the dust on the cabinet to prevent scratches on the cabinet caused by dust.

If the cabinet is extremely dirty, use a clean soft cloth from which the excess water has been removed after being soaked in a kitchen cleaner diluted with water. Finish cleaning by wiping the cabinet with a clean dry soft cloth.

To prevent fingerprints, etc. on the cabinet, do not hold the cabinet with your bare hands.

Cleaning the Remote Control

Use a soft cloth for cleaning.

If the remote control is heavily stained, soak a soft cloth in a mixture of water and detergent and squeeze it dry before wiping off the stains. Use a soft, dry cloth for final cleaning.

Cleaning the ventilation grille

Remove dust from the ventilation grille in the rear of the main unit periodically with a vacuum cleaner as the accumulated dust can increase the internal temperature of the main unit causing machine failure or fire hazard.

MAINTENANCE

If yoIn the event of problems with the display, check the following explanations before contacting your dealer for servicing.

Problem	Action
• Power does not turn ON.	• Check whether the power plug is securely inserted into the receptacle.
• No pictures are displayed.	• Check cables for disconnection. • Check whether the power for all input equipment is ON. • Check for connection to wrong terminals or for wrong input mode. • Check whether the input mode display is colored pink.Special setup may have been made. Return to original setup or initialize the User adjustment value.
• Remote control does not function properly.	• Check for incorrect battery orientation. • Check for dead batteries. • Check for distance from the display. • Check whether you are pointing the remote control transmitter properly at the display's receiver. • Check for any obstacle between the remote control and the display.
• The display makes a snapping sound.	• This sound is produced when the cabinet expands or contracts due to variations in temperature. This sound does not indicate that the display has a problem.
• The display makes a buzzing sound.	• The display has fans to maintain the temperature of internal components at a constant level. This sound is produced by the fan as it rotates. (Applies to models equipped with a fan.)
• There are spots on the screen.	• Check whether your AV equipment is affected by interference from automobiles, trains, high-voltage transmission lines, neon signs or other potential sources of interference.
• Degraded colors/tints	• Check whether all picture adjustments have been properly made. (See "ADJUSTING TO A DESIRED PICTURE" on P. E-27–E-30.)
• Improper screen position/size	• Check whether screen position and size have been properly adjusted. (See "ADJUSTING SCREEN POTISION AND SIZE" on P. E-33.)
• No audio	• Check cables for disconnection. • Check whether the proper audio input has been selected. (See "Audio Input" on P. E-36.)
• If "Out of range" appears, the display is receiving a signal whose picture or signal cannot be reproduced by the display. • The screen turns to black and white.	• Signals that are not supported by this display have been input. Check which signals are supported. (See "MAIN SUPPORTED SIGNALS" on P. E-45.)
• If "Error message Condition 1" appears, the fan is defective.	• Remove the power plug from the receptacle, and contact your dealer for repairs. (Applies to models equipped with a fan.)
• If "Error message Condition 2" appears, the display's internal components are extremely hot.	• Remove the power plug from the receptacle. (You can turn the power back ON again when the components have cooled sufficiently.) If the message appears again when you turn the power back on, remove the power plug from the receptacle, and contact your dealer for repairs.
• If "Change refresh rate to 60Hz" appears,	• The picture may get blurred with vertical frequency of other than 48.3-51.8 or 58.4-61.4 (Hz). Change the setting of your PC, etc.
• If the power indicator lamp flashes red or green.	• Remove the power plug from the receptacle, and inform your dealer about how the lamp flashed. • The power indicator lamp flashes differently depending on the type of problem.

• Picture display, audio output and remote control operation, etc. not performed normally.	• When display does not operate normally, pull the power plug from the receptacle, wait approximately 1 minute, insert the power plug back into the receptacle, turn on the power, and then check if the display operates normally.

SPECIFICATIONS

WIDE DISPLAY

Model	P37FT05AEB	P65FT00AEB
Type	Liquid crystal display panel	Plasma display panel
Screen size	37" wide screen: 81.9 cm (W) x 46.1 cm (H) (94.0 cm diagonal) 32.3 inch (W) x 18.2 inch (H) (37 inch diagonal)	65" wide screen: 143.4 cm (W) x 80.7 cm (H) (164.6 cm diagonal) 56.5 inch (W) x 31.8 inch (H) (65 inch diagonal)
Aspect ratio	16:9 (wide)	
Number of pixels	1920 (H) x 1080 (V)	
Weight	36 kg / 79.4 lbs	76 kg / 167.6 lbs
Outer dimensions	91.4 (W) x 66.5 (H) x 23.0 (D) cm 36.0 (W) x 26.2 (H) x 9.1 (D) inch (does not include outer projections)	159.2 (W) x 97.0 (H) x 10.0 (D) cm 62.7 (W) x 38.2 (H) x 4.0 (D) inch (does not include outer projections)
Power supply	110-240 VAC 50/60 Hz	
Current rating	2.0-0.8 A	8.2-3.2 A
External equipment terminals	RF INPUT — TV75 Ω VIDEO1 INPUT — SCART terminal In : Video, S-video, RGB, Audio VIDEO2 INPUT / OUTPUT — SCART terminal (Video, Audio) In : Video, S-video, RGB, Audio Out : Video, Audio VIDEO3 / 4 INPUT — Component video3 RCA terminals Y: 1 Vp-p/75 Ω P_B/C_B: 0.7 Vp-p/75 Ω P_R/C_R: 0.7 Vp-p/75 Ω VIDEO5 / 6 INPUT — HDMI terminal (HDMI type A connector) RGB1 INPUT — mD-Sub, 3 rows, 15-pin Picture signal: 0.7 Vp-p/75 Ω Synchronization signal:TTL level AUDIO1-2 INPUT — 2 audio input pin jacks (L/R) 0.5Vrms AUDIO OUTPUT ANALOG — 2 audio output pin jacks (L/R) 0.5 Vrms AUDIO OUTPUT DIGITAL — Optical audio terminal (PCM) RS-232C — D-Sub 9-pin	
External speaker output terminal	—	Max. output: 12 W + 12 W, 4 Ω
Speakers	⌀7 cm woofer x2(L/R) ⌀2.5 cm tweeter x1(L/R) Max. output: 12 W + 12 W (L + R)	—
Operating conditions	Temperature: 0 to 40 °C / 32 to 104 °F Humidity: 20 to 80 %	
Accessories	Safety Precautions, User's manual, Remote control, AA battery (2), Power cord, Large ferrite core (4), Small ferrite core (2)(for 65" model)	

Regulation

- CE Safety: EN60065
  EMC: EN55013 (CISPR13)
  EN55020 (CISPR20)
  EN55022 (CISPR22)
  EN55024 (CISPR24)
  EN61000-3-2
  EN61000-3-3

Note

- Specifications and external appearance may be change for the sake of improvement.
- Viewing the screen constantly for extended periods can strain your eyes. Be sure to stay at a proper distance (at least 1.4 m or 4.6 feet for 37"/ at least viewing the screen constantly 2.5 m or 8.2 feet for 65") from the screen and to look occasionally away while working.
- AVIAMO is a worldwide trademark of Fujitsu General Limited.